

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS ☒ WATER SANDS LOCATION INSPECTED SUB. REPORT/abd.

950815 fr Lomax to INLAND / nuger EFF 6-29-95

DATE FILED 5-13-82

LAND: FEE & PATENTED

STATE LEASE NO.

PUBLIC LEASE NO.

U-50376

INDIAN

DRILLING APPROVED: 5-13-82

SPUDDED IN: 6-30-82

COMPLETED: 7-26-82 POW PUT TO PRODUCING: 7-26-82

INITIAL PRODUCTION: 138 BOPD,

GRAVITY A.P.I.

GOR:

PRODUCING ZONES: 5232' - 5274' Gr. River (6 R.R.)

TOTAL DEPTH: 5752'

WELL ELEVATION: 5258'

DATE ABANDONED:

FIELD: WILDCAT ~~TREATY BOUNDARY~~ ~~Monument~~ ~~Suble~~ ~~Treaty Boundary~~

UNIT:

COUNTY: DUCHESNE

WELL NO. FEDERAL #13-21

API NO. 43-013-30665

LOCATION

515'

FT. FROM ☒ (S) LINE.

517'

FT. FROM ☒ (W) LINE.

SW SW

1/4 - 1/4 SEC.

21

TWP.

RGE.

SEC.

OPERATOR

TWP.

RGE.

SEC.

OPERATOR

GEOLOGIC TOPS:

QUATERNARY	Star Point	Chinle	Molas
Alluvium	Wahweap	Shinarump	Manning Canyon
Lake beds	Masuk	Moenkopi	Mississippian
Pleistocene	Colorado	Sinbad	Humbug
Lake beds	Sego	PERMIAN	Brazer
TERTIARY	Buck Tongue	Kaibab	Pilot Shale
Pliocene	Castlegate	Coconino	Madison
Salt Lake	Mancos	Cutler	Leadville
Oligocene	Upper	Hoskinnini	Redwall
Norwood	Middle	DeChelly	DEVONIAN
Eocene	Lower	White Rim	Upper
Duchesne River	Emery	Organ Rock	Middle
Uinta	Blue Gate	Cedar Mesa	Lower
Bridger	Ferron	Halgaite Tongue	Ouray
Green River	Frontier	Phosphoria	Elbert
<i>Top Douglas Creek 5160'</i>	Dakota	Park City	McCracken
	Burro Canyon	Rico (Goodridge)	Aneth
	Cedar Mountain	Supai	Simonson Dolomite
	Buckhorn	Wolfcamp	Sevy Dolomite
	JURASSIC	CARBON I FEROUS	North Point
Wasatch	Morrison	Pennsylvanian	SILURIAN
Stone Cabin	Salt Wash	Oquirrh	Laketown Dolomite
Colton	San Rafael Gr.	Weber	ORDOVICIAN
Flagstaff	Summerville	Morgan	Eureka Quartzite
North Horn	Bluff Sandstone	Hermosa	Pogonip Limestone
Almy	Curtis		CAMBRIAN
Paleocene	Entrada	Pardox	Lynch
Current Creek	Moab Tongue	Ismay	Bowman
North Horn	Carmel	Desert Creek	Tapeats
CRETACEOUS	Glen Canyon Gr.	Akah	Ophir
Montana	Navajo	Barker Creek	Tintic
Mesaverde	Kayenta		PRE - CAMBRIAN
Price River	Wingate	Cane Creek	
Blackhawk	TRIASSIC		

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Lomax Exploration Company

3. ADDRESS OF OPERATOR

P.O. Box 4503, Houston, Texas 77210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements*)

At surface

517' FWL & 515' FSL, SW/4 Section 21, T8S, R17E

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

13 miles Southeast of Myton, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

515'

16. NO. OF ACRES IN LEASE

1705.6

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

19. PROPOSED DEPTH

6000 *Wanted*

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GL 5258

22. APPROX. DATE WORK WILL START*

June 15, 1982

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24	300	300 sx
7 7/8	5 1/2	15.50	TD	As needed

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 5/13/82
BY: [Signature]

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED G. L. Pruitt TITLE Mgr. Drlg. & Prod. DATE May 6, 1982

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

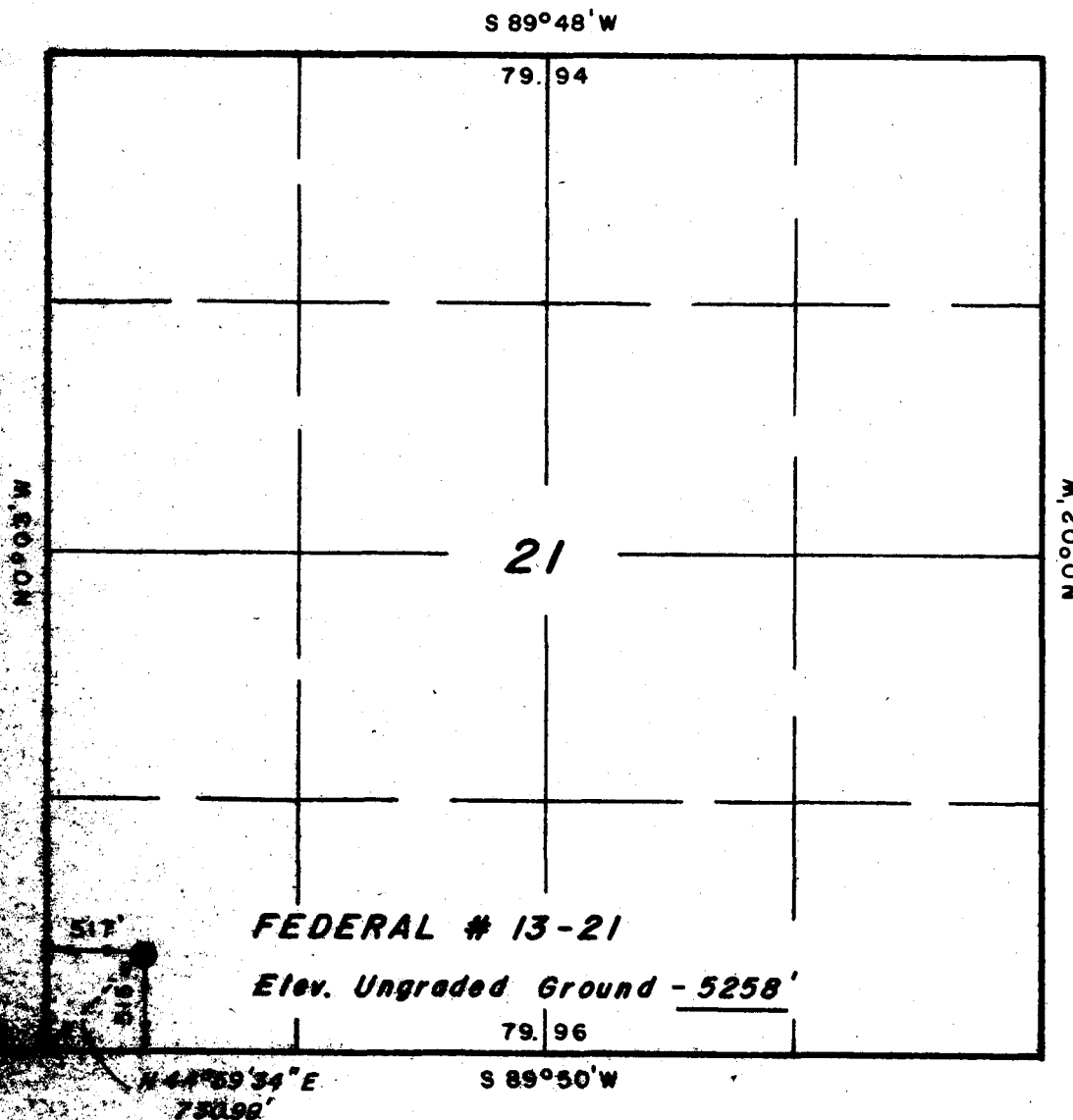
APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

T 8 S, R 17 E, S.L.B. & M.

PROJECT
LOMAX EXPLORATION CO.

Well location, **FEDERAL #13-21**,
located as shown in the SW1/4 SW
1/4 Section 21, T 8 S, R 17 E, S.L.B. & M.
Duchesne County, Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Lawrence E. Kay

REGISTERED LAND SURVEYOR
REGISTRATION NO 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 88 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	4/15/82
PARTY	R.K. B.K. S.B.	REFERENCES	6 LQ Plat
WEATHER	Warm	FILE	LOMAX EXPLOR.

1/4 COR. SEC. 20.
T 8 S, R 17 E, S.L.B.

X = Section Corners Located



LOMAX EXPLORATION CO.
FEDERAL # 13-21
PROPOSED LOCATION



TEN POINT WELL PROGRAM

Lomax Exploration Company
Federal #13-21
SW/SW Section 21, T8S, R17E
Duchesne County, Utah

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

Uinta	0-2745
Green River	2745
Wasatch	5800

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River	2745	- Sand & Shale, possible oil & gas shows
H zone	3100	- Sand & Shale, oil & gas shows anticipated
J zone	4000	
M zone	5200	

4. PROPOSED CASING PROGRAM:

8 5/8", J-55, 24#; set at 300'
5 1/2", J-55, 15.50#, STC; set at TD
All casing will be new

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The operators minimum specifications for pressure control equipment are as follows:

A 10" Series 900 Hydril Bag type BOP and a 10" Double Ram Hydraulic unit with a closing unit will be utilized. Pressure tests of BOP's to 1000# will be made prior to drilling surface plug and operation will be checked daily. (See exhibit A)

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

It is proposed that the hole be drilled with fresh water to the "J" zone and weighted up with KCl as needed for gas control.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. TESTING, LOGGING AND CORING PROGRAMS:

No coring or drill stem testing has been scheduled for this well. The logging will consist of a Dual Induction Laterolog and a Compensated Neutron-Formation Density.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

It is not anticipated that abnormal pressures or temperatures will be encountered; nor that any other abnormal hazards such as H₂S gas will be encountered in this area.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

It is anticipated that operations will commence approximately June 15, 1982.

LOMAX EXPLORATION

13 Point Surface Use Plan

For

Well Location

Federal #13-21

Located In

Section 21, T8S, R17E, S.L.B. & M.

Duchesne County, Utah

LOMAX EXPLORATION
Federal #13-21
Section 21, T8S, R17E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A".

To reach LOMAX EXPLORATION well location site Federal #13-21, located in the SE 1/4 SE 1/4 Section 21, T8S, R17E, S.L.B. & M., Duchesne County, Utah:

Proceed Westerly out of Vernal, Utah along U.S. Highway 40 - 49.0 miles + to the junction of this Highway and Utah State Highway 53; proceed Southerly along Utah State Highway 53 - 1.6 miles to its junction with Utah State Highway 216; proceed Southerly along State Highway 216 - 6.9 miles to its junction with an existing dirt road to the East; proceed Easterly along this road 1.4 miles to its junction with the proposed access road to be discussed in Item #2).

The highways mentioned in the foregoing paragraph are bituminous surfaced roads to the point where Highway 216 exists to the South; thereafter the road is constructed with existing materials and gravels. The highways are maintained by Utah State road crews. All other roads are maintained by County crews.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing areas they are located in and range from clays to a sandy-clay shale material.

The roads that are required for access during the drilling phase, completion phase, and production phase of this well will be maintained at the standards required by the B.L.M. or other controlling agencies. This maintenance will consist of some minor grader work for smoothing of road surfaces and for snow removal.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The planned road leaves the existing road described in Item #1 in the SW 1/4 NE 1/4 Section 29, T8S, R17E, S.L.B. & M., and proceeds in a North then Easterly direction approximately 1.1 miles to the proposed location site.

The proposed access road will be an 18' crown road (9' either side of the centerline) with drain ditches along either side of the proposed road where it is determined necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area.

Back slopes along the cut areas of the road will be 1 1/2 to 1 slopes and terraced.

There will be one culvert required along this access road. It will be placed according to specifications for culvert placement found in the Oil & Gas Operation Manual. (See topographic Mapo "B").

If deemed necessary at the time of the onsite inspection turnouts will be constructed for safety purposed. These turnouts will be constructed according to the specifications found on Page 25 of the Oil & Gas Surface Operating Standards Manual prepared by the B.L.M. and U.S.G.S.

There are no fences encountered along this proposed road. There will be no new gates or cattleguards required.

The lands involved in this action are under B.L.M. jurisdiction.

The terrain that is traversed by this road is relatively flat. The grade of this road will not exceed 8%.

3. LOCATION OF EXISTING WELLS

There is one dry hole, the Pacific Transmission #32-29, about 1/2 mile Southwest of the proposed location.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

There are no existing LOMAX EXPLORATION wells within a one mile radius of this location site.

A tank battery site will be set at the proposed location site. This battery will be used to contain production from this well. If in the event this battery can not be improvised, a flowline will be built which will extend to an existing well in the area.

The area will be built if possible, with native materials and if these materials are not available then the necessary arrangements will be made to get them from private sources. These facilities will be constructed using bulldozers, graders and workman crews to construct and place the proposed facilities. If there is any deviation from the above, all appropriate agencies will be notified. Rehabilitation of disturbed areas no longer needed for operation after construction is completed will meet the requirements of Item #10.

5. LOCATION AND TYPE OF WATER SUPPLY

See Topographic Map "B".

At the present time, it is anticipated that the water for this well will be hauled by truck over the existing roads and the proposed access road approximately 12.6 miles from the Duchesne River at a point where it crosses under U.S. Highway 40.

In the event that this source is not used, an alternate source will be used and all necessary arrangements will be made with the proper authorities.

There will be no water well drilled at this location site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction material for this location site and access road shall be borrow material accumulated during construction of the location site and access road. No pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources.

7. METHODS OF HANDLING WASTE DISPOSAL

See Location Layout Sheet.

A reserve pit will be constructed.

The reserve pit will vary in size and depth according to the water table at the time of drilling.

One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals and produced fluids, etc.

If deemed necessary by the agencies concerned to prevent contamination to surrounding areas, the reserve pits will be lined with a gel.

The pits will have wire and overhead flagging installed if deemed necessary to protect the water fowl, wildlife, and domestic animals.

At the onset of drilling, the reserve pit will be fenced on three sides and at the time drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and other reclamation activities are attempted.

When the reserve pit dries and reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

A portable chemical toilet will be provided for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached Location Layout Sheet.

LOMAX EXPLORATION
Federal #13-21
Section 21, T8S, R17E, S.L.B. & M.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site .

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type of material necessary to make it safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See location layout sheet and Item #9). When all drilling and production activities have been completed, the location site and access road will be reshaped to the the original contour and stockpiled topsoil spread over the disturbed area.

Any drainages re-routed during construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash basket shall be hauled to the nearest Sanitary Landfill.

Restoration activities shall begin within 90 days after completion of the well. Once restoration activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. Representative when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said clean-up and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10.

11. OTHER INFORMATION

The Topography of the General Area - (See Topographic Map "A").

The area is a large basin formed by the Uinta Mountains to the North and the Book Cliff Mountains to the South. The Green River is located approximately 16 miles to the Southeast of the location site.

The basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone ledges, conglomerate deposits, and shale are common in this area.

The geologic structures of the area that visible are of the Uinta formation (Eocene Epoch) Tertiary Period in the upper elevations and the cobblestone and younger alluvial deposits from the Quaternary Period.

LOMAX EXPLORATION
Federal #13-21
Section 21, T8S, R17E, S.L.B. & M.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoils in the area range from a light brownish-gray sandy clay (SM-ML) type soil with poorly graded gravels to a clayey (OL) soil.

The majority of the numerous washes and draws in the area are of non-perennial nature flowing during the early spring run-off and heavy rain storms of long duration which are rare as the normal annual rainfall in the area is only 8".

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area are common of the semi-arid regions and consists of areas of sagebrush, rabbitbrush some grasses and cacti as the primary flora. This is also true of the lower elevations.

The fauna of the area is sparse and consists predominantly of the mule deer, pronghorn antelope, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The Topography of the Immediate Area - (See Topographic Map "B").

Federal #13-21 is located approximately 2.0 miles North of Castle Peak Draw a non-perennial drainage which runs to the North and East.

The terrain in the vicinity of the location slopes from the West through the location site to the East at approximately 2.0% grade.

The vegetation in the immediate area surrounding the location site consists of hay fields.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Jack Pruitt
LOMAX EXPLORATION
333 North Belt East, Ste. 880
Houston, TX 77060

1-713-931-9276

LOMAX EXPLORATION
Federal #13-21
Section 21, T8S, R17E, S.L.B. & M.

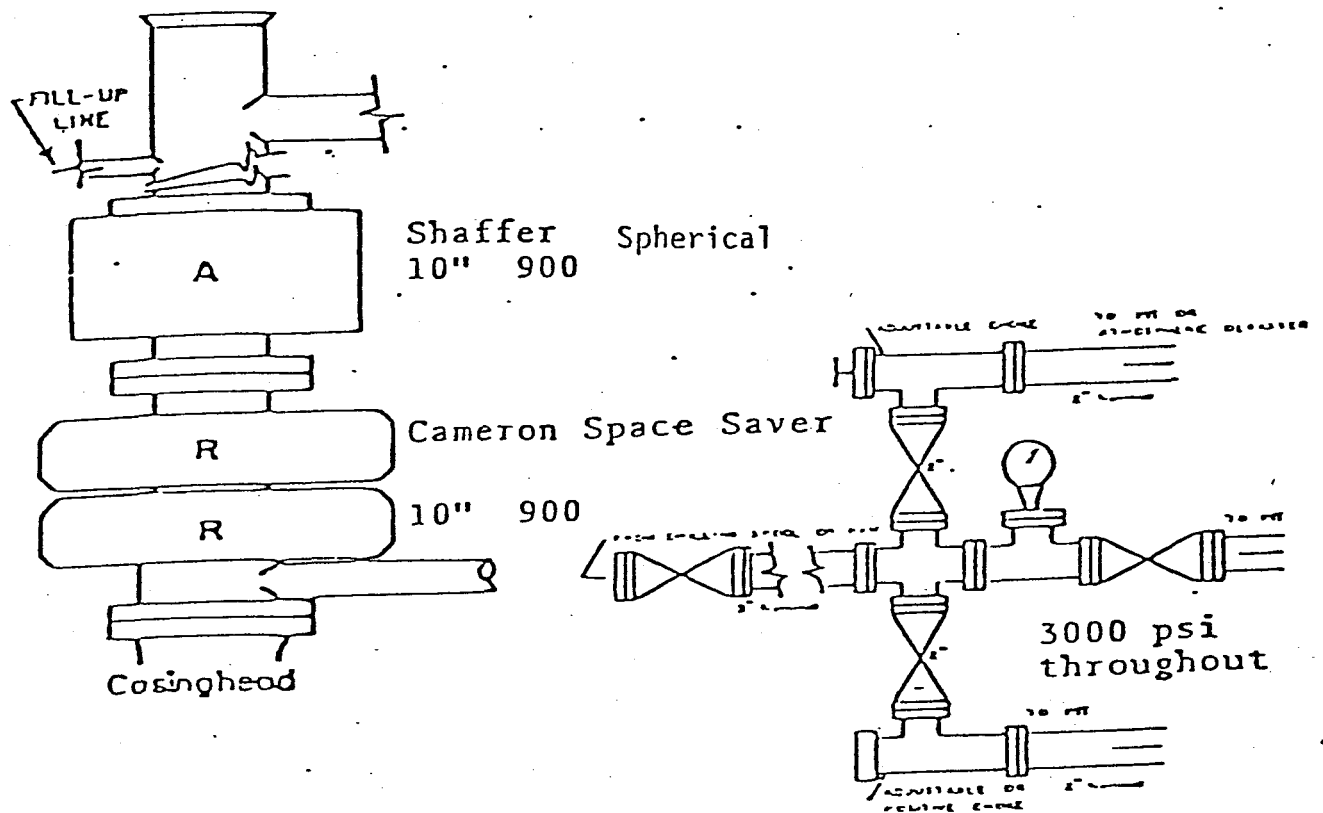
13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operation proposed herein will be performed by LOMAX EXPLORATION and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date

6/8/12

Jack Pruitt



**** FILE NOTATIONS ****

DATE: 5-12-82

OPERATOR: Lomas Exploration Co.

WELL NO: Federal #13-21

Location: Sec. 21 T. 85 R. 17E County: Duchesne

File Prepared: ☒

Entered on N.I.D: ☐

Card Indexed: ☐

Completion Sheet: ☐

API Number 43-013-30665

CHECKED BY:

Petroleum Engineer: _____

Director: OK as per rule C-3

Administrative Aide: OK as per Rule C-3

APPROVAL LETTER:

Bond Required: ☐

Survey Plat Required: ☐

Order No. _____

O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation Fed.

Plotted on Map ☒

Approval Letter Written ☐

Hot Line ☒

P.I. ☒

May 13, 1982

Lomas Exploration Company
P. O. Box 4803
Houston, Texas 77210

RE: Well No. Federal 13-21
Sec. 21, T. 8 S, R. 17 E
Duchesne County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

CLEON B. FEIGHT - Director
Office: 533-5771
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-013-30665.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight

Cleon B. Feight
Director

CBF/as
Encl.

cc: Minerals Management Service

June 4, 1982

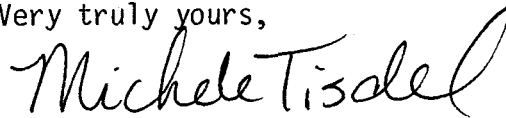
State of Utah
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Federal #13-21
Section 21, T8S, R17E
Duchesne County, Utah

Gentlemen:

Enclosed is a map showing our revised access road on the subject well. The BLM has been notified.

Very truly yours,



Michele Tisdell
Sec. Drilling & Production

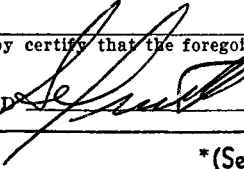
/mt
Enclosures (3)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____		5. LEASE DESIGNATION AND SERIAL NO. U-50376	
b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Lomax Exploration Company		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P.O. Box 4503, Houston, TX 77210		8. FARM OR LEASE NAME Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 515' FSL & 517' FWL At top prod. interval reported below At total depth		9. WELL NO. #13-21	
10. FIELD AND POOL, OR WILDCAT Wildcat		11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 21, T8S, R17E	
14. PERMIT NO. 43-013-30665		DATE ISSUED 5/13/82	
15. DATE SPUNDED 6/30/82		16. DATE T.D. REACHED 7/09/82	
17. DATE COMPL. (Ready to prod.) 7/26/82		18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 5258' GR	
19. ELEV. CASINGHEAD 5258'		20. TOTAL DEPTH, MD & TVD 5752'	
21. PLUG, BACK T.D., MD & TVD 5665'		22. IF MULTIPLE COMPL., HOW MANY* -	
23. INTERVALS DRILLED BY →		ROTARY TOOLS Yes	
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Green River 5232-74'		25. WAS DIRECTIONAL SURVEY MADE Yes	
26. TYPE ELECTRIC AND OTHER LOGS RUN DLL-MSFL, FDC-CNL, CBL		27. WAS WELL CORED - No	
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
8 5/8	24#	238'	12 1/4
5 1/2	15.50#	5750'	7 7/8
CEMENTING RECORD		AMOUNT PULLED	
220 sx Cl "G" & 2% CaCl ₂			
180 sx Dowell lite & 285			
sx Dowell RFC 10-0			
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 7/8"	5296'	5296'	
31. PERFORATION RECORD (Interval, size and number)			
5232-40 (5 shots)			
5257-60 (2 shots)			
5264-74 (8 shots)			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
5232-74		32,980 gal gelled H ₂ O	
		80,000# 20/40 sand	
33.* PRODUCTION			
DATE FIRST PRODUCTION 7/26/82		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Pumping	
WELL STATUS (Producing or shut-in) Producing			
DATE OF TEST 9/06/82	HOURS TESTED 24	CHOKE SIZE Open	PROD'N. FOR TEST PERIOD →
OIL—BBL. 138	GAS—MCF. NM	WATER—BBL. NM	GAS-OIL RATIO -
FLOW. TUBING PRESS. 0	CASING PRESSURE 0	CALCULATED 24-HOUR RATE →	OIL GRAVITY-API (CORR.) 34.5
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used for fuel			
35. LIST OF ATTACHMENTS			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED  G. L. Pruitt		TITLE V.P.—Drilling & Production	
DATE 9/09/82			

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:				38. GEOLOGIC MARKERS		
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.			
				Top Douglas Creek	5160'	+80'

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Lomax Exploration Company

3. ADDRESS OF OPERATOR

P.O. Box 4503, Houston, Texas 77210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements*)
At surface 517' FWL & 515' FSL, SW/SW Section 21, T8S, R17E

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

13 miles Southeast of Myton, Utah

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

515'

16. NO. OF ACRES IN LEASE

1705.6

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

N/A

19. PROPOSED DEPTH

6000

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GL 5258

22. APPROX. DATE WORK WILL START*

June 15, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24	300	300 sx
7 7/8	5 1/2	15.50	TD	As needed - CEMENT SHOULD

BE USED TO PROTECT
FRESH WATER AND
OIL SHALE
SEE OIL SHALE
STIPSRECEIVED
SEP 21 1982DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

G. L. Pruitt TITLE Mgr. Drlg. & Prod.

DATE May 5, 1982

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

FOR E. W. GUYNN

TITLE DISTRICT OIL & GAS SUPERVISOR

DATE SEP 17 1982

REASON(S) OF APPROVAL, IF ANY:

Drilled without prior approval

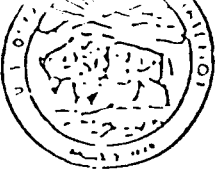
CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPYFLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

I state O & G

Lomax Exploration Company
Well No. 13-21
Section 21-T8S-R17E
Duchesne County, Utah
Lease No. U-50376

Supplemental Stipulations:

1. Traveling off the access road right-of-way will not be allowed. The maximum width of access roads, both existing and planned, will be 30 feet total disturbed area. Turn-outs will not be required.
2. The top 6 to 10 inches of topsoil will be stockpiled at point #1 of the applicant's 13 Point Plan.
3. Burn pits will not be constructed. There will be no burying of garbage or trash at the well site. No trash will be thrown in the reserve pit. Refuse will be contained in and hauled to the nearest sanitary landfill.
4. A wire mesh or net type of fence, topped with at least one strand of barbed wire, will be used around the reserve pit.
5. The access road will have (1) 30" culvert and (1) 24" culvert.
6. All permanent structures, onsite for 6 months duration or longer, constructed or installed, including the pumpjack, will be painted a flat, non-reflective earth tone color to match Tnemec 23-08351 Mesa Brown Enduratone or an approved equal. All facilities will be painted within 6 months of when the production facilities are put in place. Facilities that are required to comply with O.S.H.A. standards are excluded.
7. Muffler systems will be installed on all pumping units.
8. The BLM will be contacted at least 24 hours prior to any rehabilitation.
9. Adequate and sufficient electric/radioactive logs will be run to locate and identify the prime oil shale horizons in the Mahogany zone of the Green River formation. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the oil shale resource. Surface casing program may require adjustment for protection of fresh water aquifers. See attached tentative casing and cementing program for the Uinta Basin.



United States Department of the Interior

GEOLOGICAL SURVEY

Conservation Division
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

March 31, 1980

General Outline for the Protection and Isolation of Ground Water and Oil Shale in the Uinta Basin.

The oil shale occurs with varying thicknesses in most parts of the Uinta Basin and at varying depths. Ground water also occurs at varied depths above and below the Oil Shale. These ground waters have varying degrees of salinity. Nonetheless, drilling for hydrocarbon in the Uinta Basin should provide for the protection of the oil shale and the ground water if either is present.

The protection of the oil shale and the ground water can effectively be carried on through the design of an adequate casing and cementing program for each well drilled in the area.

In the Uinta basin, water occurs mainly in the Uinta and the Green River formations. As drilling for hydrocarbon gets deeper into the crust of the earth, more ground water might be encountered and will be protected as it is encountered.

This notice's purpose is to attempt to lay the groundwork for a casing program and cementing program that will protect the oil shale and the ground water if present.

These programs are to be considered as guidelines. The specificity of casing depth, amount of cement and the depth of staging collars will be considered on an individual basis after a careful study of the logs of each individual well.

The casing and cementing program presented here as an example, will assume that fresh water was encountered in the upper parts of the Green River, that the oil shale occurs in the middle of the Green River (1000 foot section) and that some ground water is encountered in the lower parts of the Green River.

In this case, three areas will have to be cemented to assure the integrity of the ground water and oil shale. These areas are above the upper fresh water, across the oil shale and below the lower water aquifer. Deep aquifers that do not contain useful water are cemented to prevent water zone influence on production.

The following casing and cementing program will be appropriate for this example:

- A. Surface casing is set at approximately 300 feet and cemented to the surface.

B. The next casing string will be set at approximately 300 feet below the lowest aquifer. Cementing will be done in three stages, using two stage collars and cement metal baskets or equivalent as described below and on attached sketches:

1. Cement first stage through the casing shoe using 150 percent of the calculated volume of cement to fill annulus back to base of lower aquifer.
2. Place 1st stage collar (with metal basket immediately below) at a selected point in the lower one third of the oil shale zone using 120% of calculated volume of cement to be at least 600 feet above the stage collar or 100 feet below the top of the oil shale.
3. Place 2nd stage collar (with metal petal basket immediately below) 50 feet above the top of the top aquifer and cement using 150% volume of cement to at least 300 feet above the stage collar.

C. The above is an example. Reasonable equivalents that accomplish these same protective measures, depending on the individual cases will be considered for approval.

D. When the above mentioned well is to be abandoned, inner-casing plugs will have to be placed at the same depth as the above mentioned annulus cement jobs.

The use of cement bond logs will verify the authenticity of the cement job performed.

E. The Operator of such well should notify that U.S.G.S. 48 hours prior to commencement of casing and cementing activity, so a technician could be dispatched to witness the operations to verify compliance with casing and cementing program.

Attached Sketches:

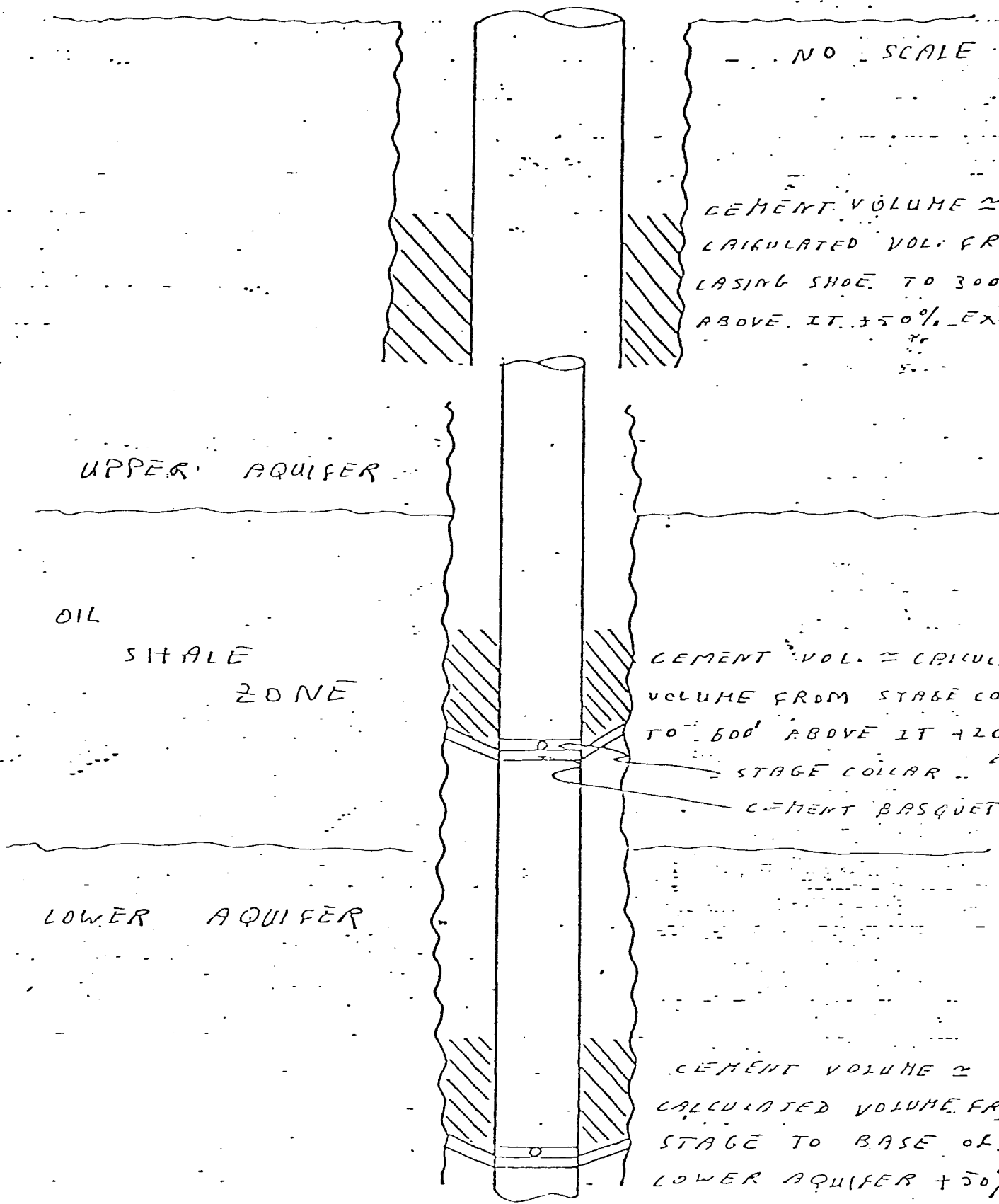
1. Schematic of the required casing and cementing program.
2. Cross section of the Uinta Basin.

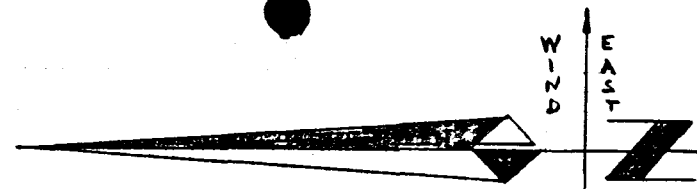
E. W. Gynn
District Engineer

AMR/kr

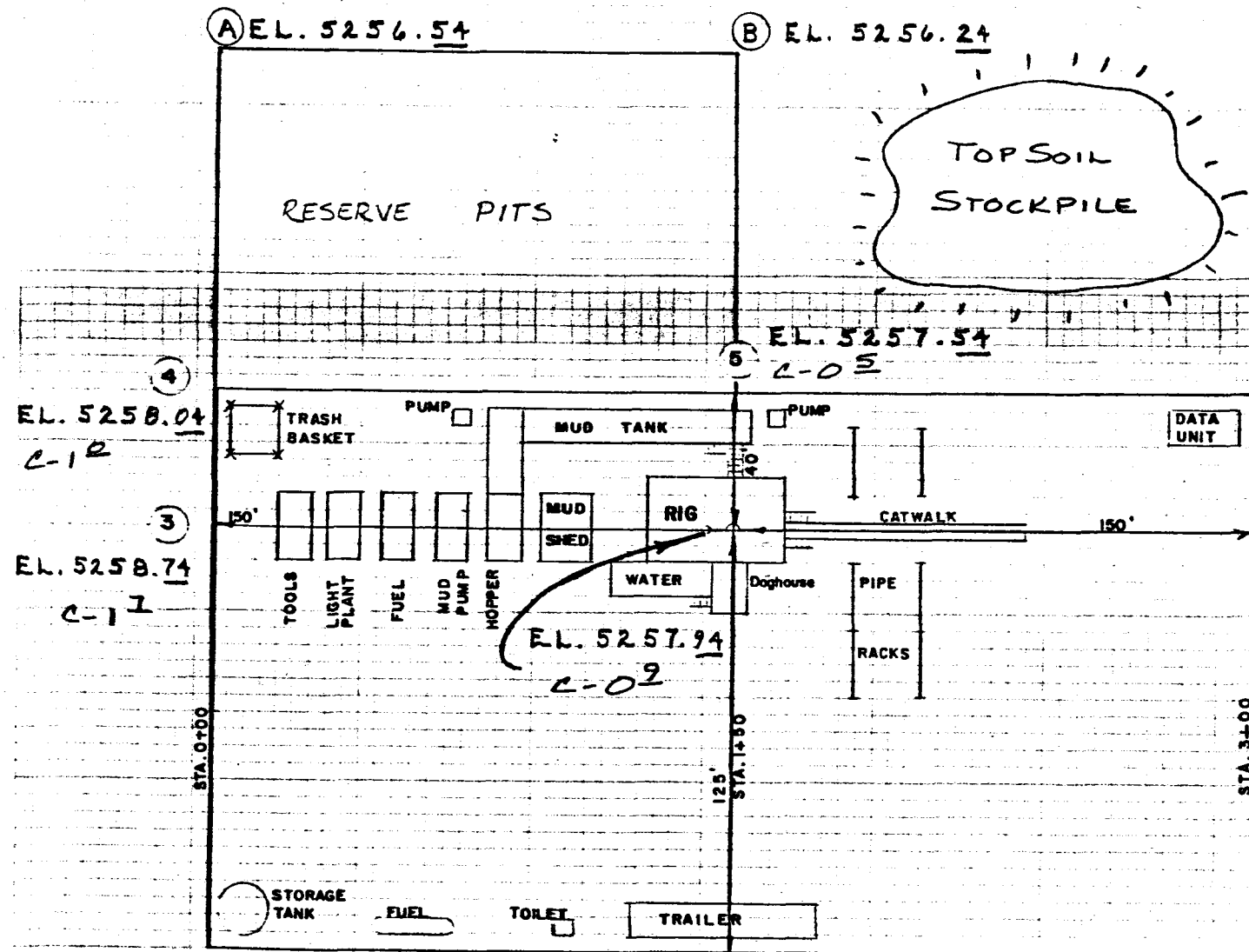
PARTIAL CASING AND CEMENTING PROGRAM FOR WELLS IN THE UINTA BASIN

EMENT TO BE PLACED ALONG LOW PERMEABILITY SECTIONS



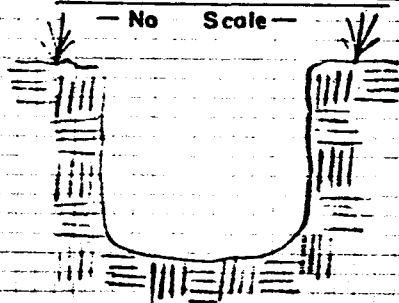


SCALE 1" = 50'



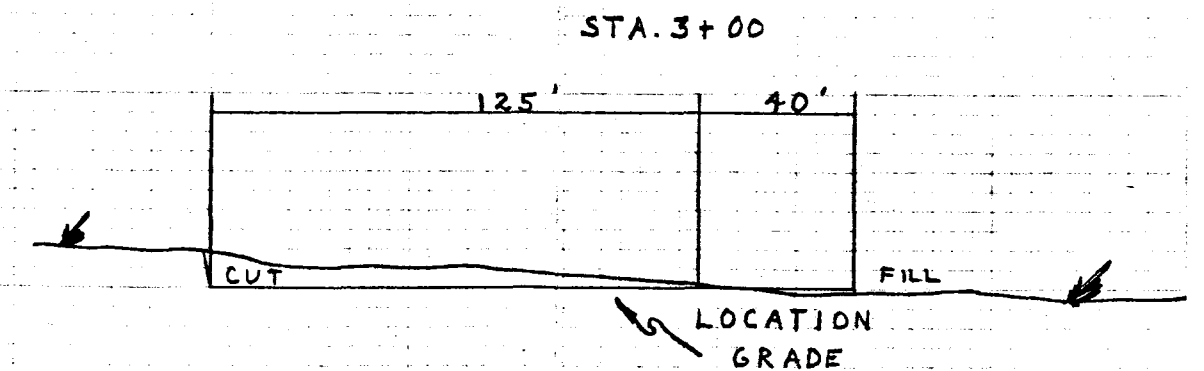
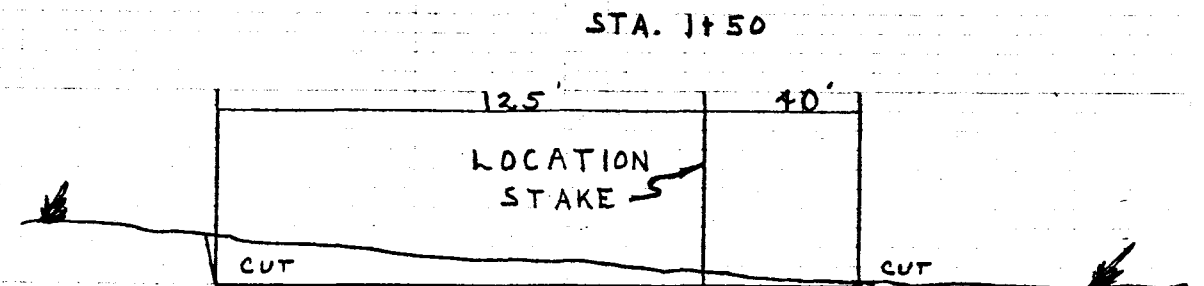
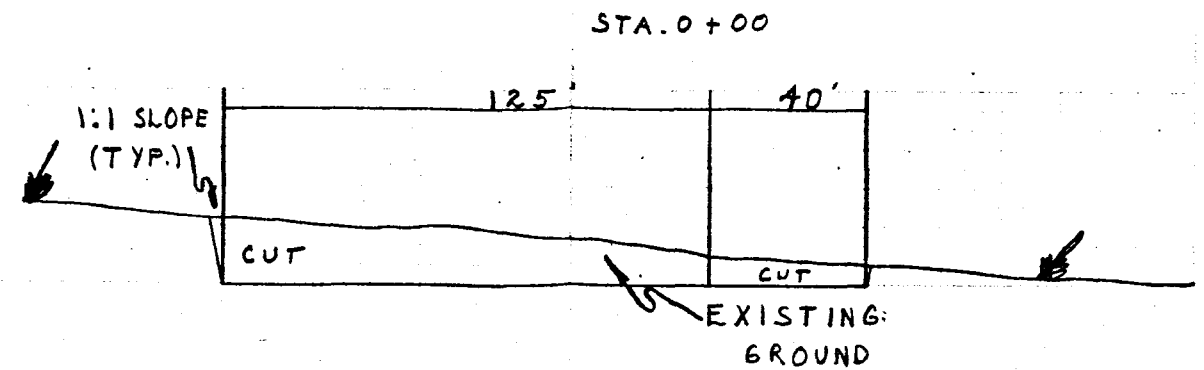
SOILS LITHOLOGY

No Scale



Light Brown
Sandy Clay

C
R
O
S
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S
E
C
T
I
O
N
S



1" = 10'
1" = 50'

SCALES

APPROXIMATE YARDAGES

Cubic Yards of Cut - 2,991
Cubic Yards of Fill - 2

PROPOSED ACCESS ROAD

0.8 MILES

1.4 MILES

LOMAX EXPLORATION CO.
FEDERAL # 13-21

PROPOSED LOCATION

TOPO. MAP "B"

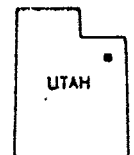


SCALE - 1" = 2000'

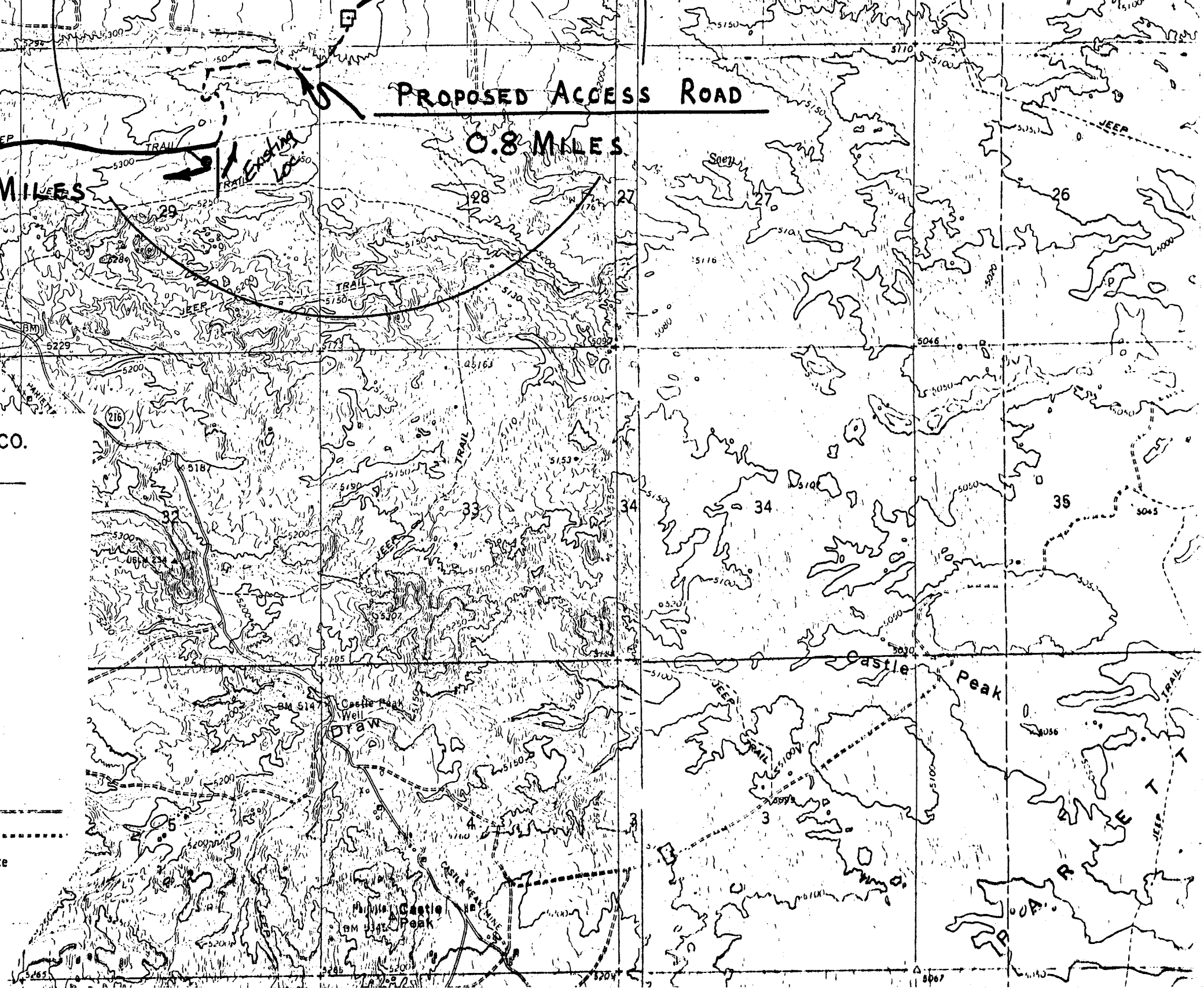
ROAD CLASSIFICATION

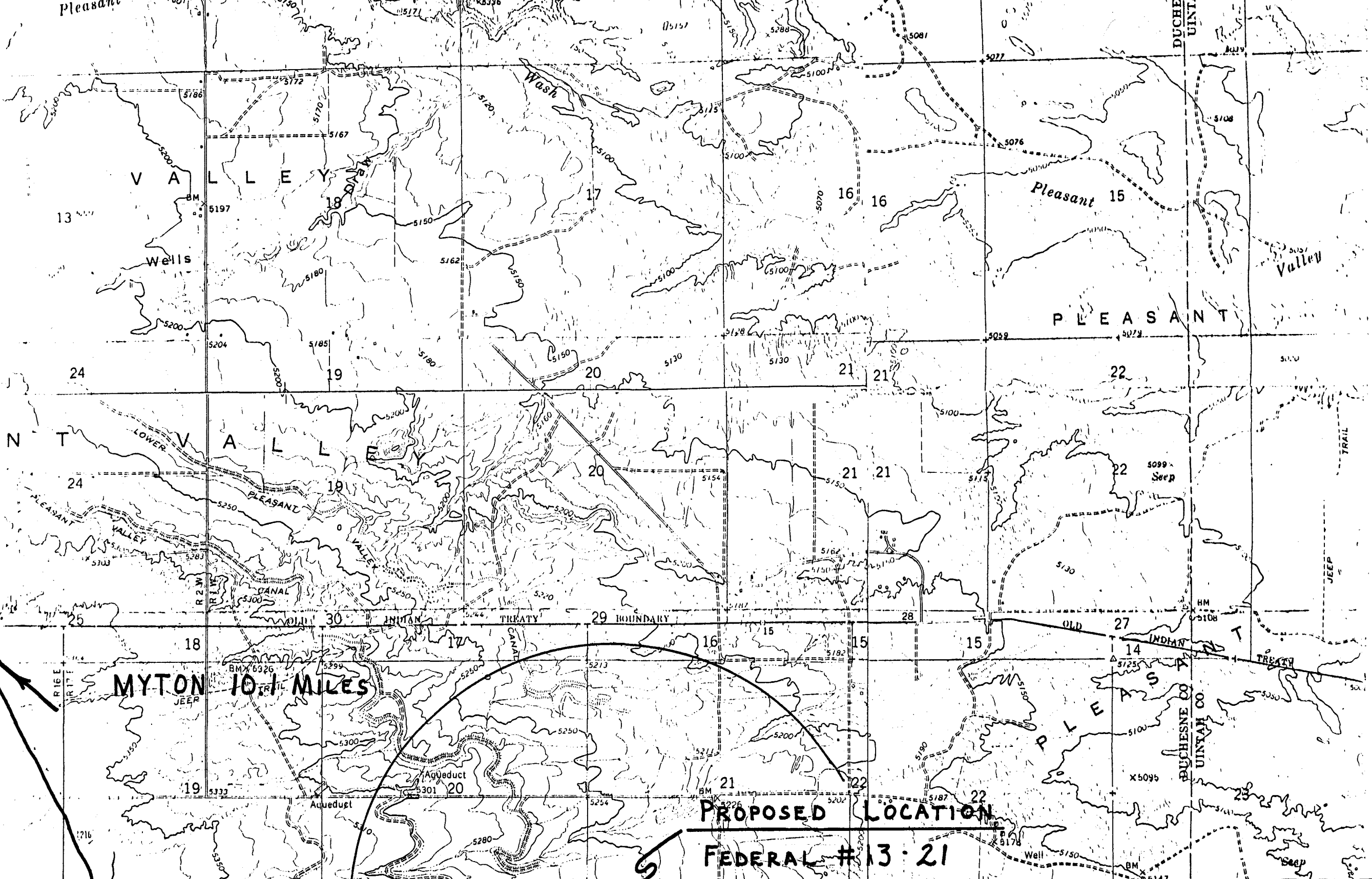
Heavy-duty ——— Light-duty - - - - -
Medium-duty ——— Unimproved dirt - - - - -

U.S. Route State Route



QUADRANGLE LOCATION





MYTON 10.1 MILES

PROPOSED LOCATION

FEDERAL #13-21



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Felgt, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

December 11, 1982

Lomax Exploration Company
P. O. Box 4503
Houston, Texas 77210

Re: Well No. Federal #13-21
Sec. 21, T. 8S, R. 17E.
Duchesne County, Utah

Well No. Federal #4-35
Sec. 35, T. 8S, R. 16E.
Duchesne County, Utah

Well No. State #5-36
Sec. 36, T. 8S, R. 16E.
Duchesne County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office September 9, 1982 & August 23, 1982, from above referred to wells, indicates the following electric logs were run: #13-21: DLL-MSFL, FDC-CNL, CBL, #4-35: DLL-MSFL, CNFD-Litho Density-EPT, CBL, #5-36: DLL-MSFL, FDC-CNL, CBL. As of todays date, this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse

Cari Furse
Clerk Typist

CF/cf

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck
Robert R. Norman • Margaret R. Bird • Herm Olsen

an equal opportunity employer • please recycle paper

December 16, 1982

State of Utah
Natural Resources & Energy
4241 State Office Building
Salt Lake City, Utah 84114

Well No. Federal #13-21 85 17E 21
Federal #4-35 85 16E 35
State #5-36
Duchesne County Utah

Gentlemen:

Enclosed please find the requested copies of the logs on the above captioned wells.

Sincerely,

LOMAX EXPLORATION COMPANY


Janice Keach

/jk

enclosures

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

6. LEASE DESIGNATION AND SERIAL NO.

U-50376

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

N/A

9. WELL NO.

See attached sheet.

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR B.L. AND
SURVEY OR AREA

Sec. 20 & 21, 8S-17E

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT--" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR
Lomax Exploration Company

3. ADDRESS OF OPERATOR
50 W. Broadway, Suite 1000, Salt Lake City, Utah 84101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

See attached sheet.

14. PERMIT NO.

See attached sheet.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

See attached sheet.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

Construct gas gathering
system

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Construct a gas gathering system for the subject wells. The system will consist of an 8" main line and with the exception of the #7-20 Well, a 3" feeder line from each well to the main line. The #7-20 Well will have a 4" feeder. The 8" main line will tie into a compressor/gas processing plant in the SE/SE of Section 20. A 4" surface line will transport the gas from the compressor site to the lease boundary. The 3" and 4" feeder lines, as well as the 8" main line, will be buried. A 3" gas fuel line will also be buried in the same ditch. The compressor site will contain a compressor (housed), condensate storage tank or tanks, gas separator, gas processing plant and generator (housed). The compressor site will occupy approximately two (2) acres. Initial volumes of gas to be transported will be approximately 1,500 MCFD. Construction will begin upon receipt of approval. See attached plat.

RECEIVED

MAY 29 1984

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED David D. Perkins
(This space for Federal or State office use)

TITLE District Landman

DATE May 16, 1984

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side

Attached to that certain Sundry Notice dated May 16, 1984 for the Boundary Federal #7-20, #9-20, #15-20, #11-21 & #13-21 Wells on Lease U-50376.

Item 4. - Location of well:

#7-20 - 1941' FNL, 2059' FEL, Section 20, T8S-R17E
#9-20 - 1947' FSL, 650' FEL, Section 20, T8S-R17E
#15-20 - 509' FSL, 1994' FEL, Section 20, T8S-R17E
#11-21 - 1915' FSL, 2076' FWL, Section 21, T8S-R17E
#13-21 - 515' FSL, 517' FWL, Section 21, T8S-R17E

Item 9. - Well No.:

Boundary Federal #7-20
Boundary Federal #9-20
Boundary Federal #15-20
Boundary Federal #11-21
Boundary Federal #13-21

Item 14. - Permit No.:

#7-20 - 43013-30750
#9-20 - 43013-30690
#15-20 - 43013-30667
#11-21 - 43013-30752
#13-21 - 43013-30665

Item 15. - Elevations:

#7-20 - 5279 GR
#9-20 - 5266 GR
#15-20 - 5288 GR
#11-21 - 5240 GR
#13-21 - 5258 GR

A N T V A L L E Y

RIFE

7-29 3" Buried 8" Buried 2" Buried

4" Buried

3" Buried (2)

15-20

11-21

COMPASSION

SITE

4" SURFACE

TBS

S. 44° 48' E - 2647.31'

Draw

Peak

Castle

Castle

Peak



RECEIVED
FEB 29 1988

DIVISION OF
OIL, GAS & MINING

February 26, 1988

STATE OF UTAH
Division of Oil, Gas & Mining
355 West North Temple
Three Triad Center - Suite 350
Salt Lake City, UT 84180-1203

Boundary Federal #13-21
Workover Report
T8S, R17E Sec 21

Gentlemen:

Please find the enclosed two (2) copies of the Workover Report for the captioned location. If there is further information required, please advise.

Very truly yours,

Jodie S. Faulkner
Production Technician

Enclosures

cc: Lomax Exploration
Roosevelt, UT

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

13

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED
FEB 29 1988

5. LEASE DESIGNATION AND SERIAL NO.

U-50376

IF INDIAN, ALLOTTEE OR TRIBE NAME

030740

UNIT AGREEMENT NAME

Pow/GRN

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐
b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☒ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

Lomax Exploration Company

DIVISION OF
OIL, GAS & MINING

3. ADDRESS OF OPERATOR

50 West Broadway - Ste 1200, Salt Lake City, UT 84101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 515' FSL & 517' FWL

At top prod. interval reported below

At total depth

14. PERMIT NO.

43-013-30665

DATE ISSUED

05/13/82

5. FARM OR LEASE NAME

Federal

9. WELL NO.

#13-21

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec 21, T8S, R17E

12. COUNTY OR PARISH

Duchesne

13. STATE

Utah

15. DATE SPUDDED

06/30/82

16. DATE T.D. REACHED

07/09/82

17. DATE COMPL. (Ready to prod.)

07/26/82

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

5258' GR

19. ELEV. CASINGHEAD

5258' GR

20. TOTAL DEPTH, MD & TVD

5752'

21. PLUG, BACK T.D., MD & TVD

5492'

22. IF MULTIPLE COMPL., HOW MANY*

N/A

23. INTERVALS DRILLED BY

ROTARY TOOLS

Yes

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

5232-74' Green River

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

DLL-MSFL, FDC-CNL, CBL

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8	24#	238'	12 1/4	220 sx CL "G" & 20% CaCl	
5 1/2	15.5#	5750'	7 7/8	180 sx Dowell lite & 285 sx Dowell REC 10-0	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 7/8"	5341'	

31. PERFORATION RECORD (Interval, size and number)

5232-40 (5 shots) 5232-34 (8 shots)
5257-60 (2 shots) 5257-59 (8 shots)
5264-74 (8 shots) 5264-60 (24 shots)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5232-74	32,980 gal gelled wtr 80,000# 20/40 sand

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
1/30/88		Pumping				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
02/25/88	72	-	→	36.32	90.16	0	2482
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
-	-	→	12.1	30.0	0	-	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Used for fuel and sold and vented.

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE Production Technician

DATE 2-26-88

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS					
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.		
				NAME	TOP
MEAS. DEPTH		TRUE VERT. DEPTH			
			Top Douglas Creek	5160'	80'

Lomax Exploration Company

P.O. Box 1446
Roosevelt, Utah 84066
(801) 722-5103
FAX (801) 722-9149

April 30, 1993



State of Utah
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
Attention: Dan Jarvis

Injection Well Application
Federal #13-21
SW/SW Sec 21, T8S, R17E
Duchesne County, Utah

Dear Dan,

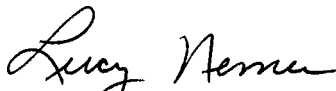
43-013-30665

Enclosed are the following documents:

- 1) Original and one copy of the Application for Injection Well - UIC Form 1 plus Exhibit A .
- 2) Two copies of the Underground Injection Control Permit Application with attachments submitted for approval to the EPA.

If you have any questions or require additional information, please contact me or Brad Mecham at 801-722-5103.

Sincerely,



Lucy Nemec
Engineering Secretary

\n
EPA\1321STAP.LTR

Enclosures

RECEIVED

MAY 03 1993

DIVISION OF
OIL GAS & MINING

Form 4 UIC	UNITED STATES ENVIRONMENTAL PROTECTION AGENCY UNDERGROUND INJECTION CONTROL PERMIT APPLICATION <i>(Collected under the authority of the Safe Drinking Water Act, Sections 1421, 1422, 40 CFR 144)</i>	EPA ID NUMBER I T A I C UI																																						
READ ATTACHED INSTRUCTIONS BEFORE STARTING FOR OFFICIAL USE ONLY																																								
Application approved mo day year	Date Received mo day year	Permit/Well Number																																						
Comments																																								
I. FACILITY NAME AND ADDRESS Facility Name BOUNDARY UNIT Street Address T8S, R17E City Duchesne Co. State UT ZIP Code		III. OWNER/OPERATOR AND ADDRESS Owner/Operator Name LOMAX EXPLORATION COMPANY Street Address P.O. Box 1446 W. Poleline Rd. City Roosevelt State UT ZIP Code 84066																																						
IV. OWNERSHIP STATUS (Mark 'x') <input checked="" type="checkbox"/> A. Federal <input type="checkbox"/> B. State <input type="checkbox"/> C. Private <input type="checkbox"/> D. Public <input type="checkbox"/> E. Other (Explain)		V. SIC CODES																																						
VI. WELL STATUS (Mark 'x') <input type="checkbox"/> A. Operating Date Started: mo day year <input checked="" type="checkbox"/> B. Modification/Conversion <input type="checkbox"/> C. Proposed																																								
VII. TYPE OF PERMIT REQUESTED (Mark 'x' and specify if required) <input type="checkbox"/> A. Individual <input checked="" type="checkbox"/> B. Area Number of Existing wells: 0 Number of Proposed wells: 1 Name(s) of field(s) or project(s): BOUNDARY UNIT																																								
VIII. CLASS AND TYPE OF WELL (see reversal) <table style="width:100%;"> <tr> <td style="width:20%;">A. Class(es) (enter code(s))</td> <td style="width:20%;">B. Type(s) (enter code(s))</td> <td style="width:40%;">C. If class is "other" or type is code "x," explain</td> <td style="width:20%;">D. Number of wells per type (if area permit)</td> </tr> <tr> <td>II</td> <td>R</td> <td></td> <td>1</td> </tr> </table>			A. Class(es) (enter code(s))	B. Type(s) (enter code(s))	C. If class is "other" or type is code "x," explain	D. Number of wells per type (if area permit)	II	R		1																														
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IX. LOCATION OF WELL(S) OR APPROXIMATE CENTER OF FIELD OR PROJECT <table style="width:100%;"> <tr> <td style="width:15%;">A. Latitude</td> <td style="width:15%;">B. Longitude</td> <td style="width:30%;">Township and Range</td> <td style="width:40%;">X. INDIAN LANDS (Mark 'x')</td> </tr> <tr> <td> <table border="1" style="width:100%;"> <tr> <td>C</td> <td>Deg</td> <td>Min</td> <td>Sec</td> </tr> <tr> <td>II</td> <td></td> <td></td> <td></td> </tr> </table> </td> <td> <table border="1" style="width:100%;"> <tr> <td>Deg</td> <td>Min</td> <td>Sec</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table> </td> <td> <table border="1" style="width:100%;"> <tr> <td>Twsp</td> <td>Range</td> <td>Sec</td> <td>1/4 Sec</td> <td>Feet from</td> <td>Line</td> <td>Feet from</td> <td>Line</td> </tr> <tr> <td>8S</td> <td>17E</td> <td>20</td> <td>NE</td> <td>1941</td> <td>N</td> <td>2059</td> <td>E</td> </tr> </table> </td> <td> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </td> </tr> </table>			A. Latitude	B. Longitude	Township and Range	X. INDIAN LANDS (Mark 'x')	<table border="1" style="width:100%;"> <tr> <td>C</td> <td>Deg</td> <td>Min</td> <td>Sec</td> </tr> <tr> <td>II</td> <td></td> <td></td> <td></td> </tr> </table>	C	Deg	Min	Sec	II				<table border="1" style="width:100%;"> <tr> <td>Deg</td> <td>Min</td> <td>Sec</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>	Deg	Min	Sec				<table border="1" style="width:100%;"> <tr> <td>Twsp</td> <td>Range</td> <td>Sec</td> <td>1/4 Sec</td> <td>Feet from</td> <td>Line</td> <td>Feet from</td> <td>Line</td> </tr> <tr> <td>8S</td> <td>17E</td> <td>20</td> <td>NE</td> <td>1941</td> <td>N</td> <td>2059</td> <td>E</td> </tr> </table>	Twsp	Range	Sec	1/4 Sec	Feet from	Line	Feet from	Line	8S	17E	20	NE	1941	N	2059	E	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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XI. ATTACHMENTS (Complete the following questions on a separate sheet(s) and number accordingly; see instructions) FOR CLASSES I, II, III (and other classes) complete and submit on separate sheet(s) Attachments A — U (pp 2-6) as appropriate. Attach maps where required. List attachments by letter which are applicable and are included with your application: A, B, C, E, G, H, M, Q, R Litho-density Neutron, Dual Laterolog Micro-SFL, Electronic Propagation, Cement Bond																																								
XII. CERTIFICATION I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)																																								
A. Name and Title (Type or Print) Brad Mecham, Regional Production Manager		B. Phone No. (Area Code and No.) 801-722-5103																																						
C. Signature 		D. Date Signed 4/28/93																																						

ATTACHMENTS TO FORM 4

ATTACHMENTS REQUIRED TO BE SUBMITTED WITH PERMIT APPLICATION FOR CLASS II WELLS:

- A. **AREA OF REVIEW METHODS** - Give the methods and, if appropriate, the calculations used to determine the size of the area of review (fixed radius or equation).

Answer:

The area of review shall be a fixed radius of 1/4 mile from the Boundary Unit Boundary.

See Exhibit A for letter of intent.

- B. **MAPS OF WELLS/AREA AND AREA OF REVIEW** - Submit a topographic map, extending one mile beyond the property boundaries, showing the injection well or project area for which a permit is sought and the applicable area of review.

Answer:

See Exhibit B - Area of review; Exhibit B-2 - Location of Johnson Waterline

There are no hazardous waste, treatment, storage or disposal facilities within a one mile radius of the property boundaries.

- C. **CORRECTIVE ACTION PLAN AND WELL DATA** - Submit a tabulation of data reasonably available from public records or otherwise known to the applicant on all wells within the area of review, including those on the map required in B, which penetrate the proposed injection zone.

Class I - A description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion.

Answer:

See Exhibits C & C-1 through C-11

Class II - In addition to requirements for Class I, in the case of Class II wells operating over the fracture pressure of the injection information, all known wells within the area of review which penetrate formations affected by the increase in pressure.

Answer:

Step-rate tests will be performed periodically to determine the fracture pressure. The injection pressure will be kept under frac pressure.

- E. **NAME AND DEPTH OF USDWs (CLASS II)** - For Class II wells, submit geologic name, and depth to bottom of all underground sources of drinking water which may be affected by the injection.

Answer:

~~Due to the location and depth of this well, it will not affect any source of drinking water.~~

Attached is Exhibit E showing an analysis of the water at the injection depth.

- G. GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES (CLASS II) -** For Class II wells, submit appropriate geological data on the injection zone and confining zones.

Answer:

The injection zone is the Douglas Creek Member of the Green River Formation. The Douglas Creek is composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shales. At the 13-21 Boundary location, the injection zone is 22' thick with the top @ 5231'. The porous and permeable lenticular sandstones vary in thickness from 0' to 31' and are confined to the Boundary Field by low porosity calcareous shales and carbonates. Outside the field the sandstones are composed of tight, very fine, silty, calcareous sandstones less than 3' thick.

The confining stratum directly above and below the injection zone is the Douglas Creek member of the Green River formation, with its top at 5160' in the 13-21 well. The strata confining the injection zone is composed of tight, moderately calcareous sandy lucustrine shales. All of the confining strata is impermeable and it will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

The fracture pressure of the 13-21 is estimated to be 1868#. This was obtained by using the frac gradients from two adjacent wells in the Boundary field (see attached exhibits G-1 & G-2) and using the average frac gradient of .79 as follows: $.79 - .433 = .357 \times 5232 = 1868\#$. The injection pressure on the 13-21 will not exceed frac pressure. A step-rate test will be conducted upon injection and periodically thereafter to determine actual fracture pressure. As frac pressure increases we may elect to increase injection pressure but will not exceed the maximum pressure of 2000#.

Formation tops - see Exhibit G

Frac Gradients - see Exhibits G-1 & G-2

- H. OPERATING DATA -** Submit the following proposed operating data for each well (including all those to be covered by area permits): (1) average and maximum daily rate and volume of the fluids to be injected; (2) average and maximum injection pressure; (3) nature of annulus fluid; (5) for Class II wells, source and analysis of the physical and chemical characteristics of the injection fluid.

Answer:

- 1) Average - 600 BPD; Maximum - 1200 BPD
- 2) Surface Pressure: Average - 1600#; Maximum - 2000#
- 3) Fresh water treated w/scale inhibitor, oxygen scavenger, biocide (behind PKR fluid).
- 5) Culinary water supplied by Johnson Water District (see Exhibit H for water analysis & Exhibit B-2 for location of the Johnson Waterline).

- M. CONSTRUCTION DETAILS -** Submit schematic or other appropriate drawings of the surface and subsurface construction details of the well.

Answer:

See Exhibits M-1, M-2, C, & C-1 through C-6.

- Q. PLUGGING AND ABANDONMENT PLAN -** Submit a plan for plugging and abandonment of the well.

Answer: See plug & abandonment plan - Exhibit Q-1, Q-2, Q-3.

- R. NECESSARY RESOURCES** - Submit evidence such as a surety bond or financial statement to verify that the resources to close, plug or abandon the well are available.

Answer:

See Exhibit R.

MISCELLANEOUS - Enclosed are copies of the following logs:

Litho-Density Compensated Neutron Log
Cement Bond Log
Dual Laterolog Micro-SFL Log
Electronic Propagation Log



June 4, 1992

To Whom It Concerns:

Brad Mecham is the Production Manager of Lomax Exploration Company and a duly authorized company official for purposes of the filing of this EPA application.

If you have any questions, please contact me.

LOMAX EXPLORATION COMPANY

A handwritten signature in black ink, appearing to read "Bill I. Pennington". The signature is written in a cursive, flowing style.

Bill I. Pennington
President

Lomax Exploration Company

P.O. Box 1446
Roosevelt, Utah 84066
(801) 722-5103
FAX (801) 722-9149

EXHIBIT A



April 27, 1993

OWNER OR OPERATOR:

RE: Water Injection Application
Proposed Boundary Unit
Duchesne County, Utah

This is to inform you that Lomax Exploration Company located at P.O. Box 1446, Roosevelt, Utah is submitting an application to the EPA for area approval of the Boundary Unit described below. Also included in this application is a request for approval to convert the Federal #13-21 well, located in the SW/SW of Section 21, to a Class II water injection well for the purpose of enhanced oil recovery.

BOUNDARY UNIT

All, Section 17, T8S, R17E
E2, Section 18 & 19, T8S, R17E
All, Section 20, T8S, R17E
NW4, S2, Section 21, T8S, R17E

The water that will be used for injection is culinary water from the Johnson Water District. The proposed maximum injection rate will be 1200 BWPD at a maximum surface pressure of 2000#. The injection zone targeted for secondary recovery in the Federal #13-21 well is the D1 sand interval from 5232'-40' and the D2 sand interval from 5257'-60', 5264'-74'.

After reviewing the application, the EPA will publish a public notice at which time a draft permit will be issued. Surface owners will be sent a copy of the notice and have an opportunity to respond if they desire. Comments may be directed to Ms. Daniela Thigpen of the EPA at the following address:

UIC Implementation Section
Drinking Water Branch (8WM-DW)
Attention: Ms. Daniela Thigpen
999 18th Street, Suite 500
Denver, CO 80202-2405
Telephone: (303) 293-1413

If you have any questions, please contact me or Lucy Nemec at 801-722-5103.

Sincerely,



Brad Mecham
Regional Production Manager

EPA \BDRYINT.LTR

POWER LINE

JOHNSON WATER LINE

R 2 W

WATER SOURCE

Lomax

RIGHT-OF-WAY and ACCESS
FOR FRESH WATER PIPELINE
DUCHESE CO., UTAH
EXHIBIT B-2

SCALE 1:24,000

Date: 10/88 REVISED 3/89

BY: D. TAFF

PIPE LINE

PUMP BLDG.

R 16 E

UIC STAFF MEETING
10:30, June 1, 1993

Agenda

Topics:

- ✓ Scheduling vacations, field time, etc.
- ✓ Board hearing 6-23-93, Jonah Unit waterflood project.
- ✓ Monitoring of River Gas activity near Price (Chris).
- ✓ Koch gas plant (Dan).
- ✓ GIS, spacing project etc. (Brad).
- ✓ Sampling emergency pits etc. (Dan).
- ✓ Virgin field (Chris).
- Ashley Valley, other compliance issues?
- Other?



Henry - soil borer

EXHIBIT A

NOTICE OF INTENT TO SUBMIT AN APPLICATION FOR APPROVAL FOR THE BOUNDARY UNIT AREA
HAVE BEEN SENT TO THE FOLLOWING OWNERS & OPERATORS.

OWNERS/WORKING INTERESTS

Walker Energy
260 North Belt
Houston, Tx. 77060

John D. Chasel
2285 Lucky John Drive
Park City, Ut. 84060

Phoenix Hydrocarbons, Inc.
P.O. Box 2802
Midland, Tx. 79702

Mega Petroleum Inc.
1115 Grant Street
Denver, Co. 80203

Lomax Exploration Company
13450 NW Freeway #314
Houston, Tx. 77040

Green River Oil and Gas, Inc.
13450 NW Freeway, #314
Houston, Tx. 77040

Lomax Family Trust
791 Nyes Place
Laguna Beach, CA. 92651

Dorothy M. Lomax
791 Nyes Place
Laguna Beach, CA. 92651

Yates Petroleum Corp.
105 South 4th Street
Artesia, NM 88210

Andover Partners
1001 Fannin #2000
Houston, Tx. 77002

Lancaster Corporation
P.O. Box 8439
Denver, Co. 80201

E.P. Operating Co
Box 2649
Dallas, TX 75221

Greenwood Holdings Inc.
5600 So Quebec St #150C
Englewood, Co. 80111

MTS Limited Partnership
c/o Mesa Petroleum Co.
One Mesa Square
Amarillo, TX 79189

23rd St Investment Co.
820 23rd Street
Ogden, Utah 84401

Carman Family Investment
Box 224
Duchesne, UT 84021

Lela Hall
Edward Carter
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Croff Oil Company
1675 Larimer St., #810
Denver, Co. 80202

Covey Minerals Inc.
3000 Conner St., #13
Salt Lake City, UT 84109

Elizabeth Bartlett Hall
Carleson Gillard
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Bruce & Laurel Hall
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Edwin C. Hall
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Glade & Ruby Hall
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Jay M. & Beths Hall
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Jean Hall
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Flying J Exploration
& Production Co.
P.O. Box 540180
No. Salt Lake, UT 84054

Hancock Enterprises
692 E. 3rd No.
Roosevelt, UT 84066

William D. Hancock
Elizabeth Hancock
Box 190
Roosevelt, UT 84066

Woodro Grand Hansen
Rita S. Hansen
Altamont, UT 84001

Donald & Cheryl Hatch
Box 1565
Roosevelt, UT 84066

Clarence A. Hawk
c/o John C. Zerr Jr.
Coldrun Road
Geigertown, PA 19523

Earl M. Henderson
40 South 900 East
Salt Lake City, UT 84105

T.E. Jeremy Trust
c/o First Interstate Bnk
180 South Main
Salt Lake City, UT 84111

Pearl L. Keilman
c/o John C. Zerr Jr.
Coldrun Road
Geigertown, PA 19523

Brigham Krause Estate
79 So. Main
Salt Lake City, UT 84111

Rex & LaRue Lamb
Box 374
Myton, UT 84052

Nolan & Vickie Larsen
Box 25
Myton, UT 84052

David & Ruth Losee
P.O. Box 9
Lava Hot Springs, ID 83221

Gayla Losee Comby
c/o Glenn H. Losee
12115 S. 2240 W.
Riverton, Ut. 84065

Glenn Losee
12115 S. 2240 W.
Riverton, Ut. 84065

Leonard P. Losee
2539 W. Buena Vista Dr.
West Jordan, Ut 84088

Mark A. Losee
7696 S. 2250 W.
West Jordan, UT 84084

Mary Losee Rowndy
3221 Royalwood R.
Taylorsville, UT 84118

Steven D. Losee
c/o Mark A. Losee
7696 S. 2250 West
West Jordan, UT 84118

Steven A. Malnar
Bonnie L. Malnar
600 N Gats Dr (60-6)
Roosevelt, UT 84066

Mary Hall McBride
c/o Mark A. Losee
7696 S. 2250 W.
West Jordan, Ut. 84118

Evylen McNauthtan
377 N. Vernal Ave.
Vernal, Utah 84078

Elva Stewart
4744 S. Rainbow Dr.
Murray, UT 84107

Golda M. Carroll
3022 West 500 So.
Vernal, UT 84078

George O. Massey
739 North Main Street
Springville, UT

Ira D. Massey
5140 South 9500 East
Jensen, UT 84035

Arthella Pierson
8962 Hunt Avenue
South Gate, Ca. 90280

Farrell A. Massey
326 West 1700 South
Orem, UT 84057

Floyd L. Massey
6975 East 6720 South
Jensen, UT 84035

Julian A. Massey, Jr.
1749 North 1500 West
Vernal, UT 84078

Valda D. Massey
102 South 2500 West
Vernal, UT 84078

Illela McKinlay
Box 39
Teton City, ID 83451

Claire & Ernest Miller
833 Emerson St.
Philadelphia, PA 19111

Moon Land & Livestock
Orven & Delphia Moon
Box 173
Neola, UT 84053

Audrey M. Prewitt
2006 Hanner Ave.
Norco, UT 84053

Howard D. Roberts Estate
Virginia P. Roberts
56 Garden Place
Salt Lake City, UT 85103

Hazel Robertson
875 S. Donner Way
Murray, UT 84108

Marvin & Janet Ross
3009 Comanche Lane
Provo, UT 84604

Sam Oil, Inc.
Box 1030
Roosevelt, UT 84066

Shell Oil Company
P.O. Box 576
Houston, TX 77001-0576

Alice Todd
Myton, UT 84052

Uintah & Ouray Indians
Bureau of Indian Affairs
P.O. Box 130
Ft. Duchesne, UT 84026

Van Tassell Land & Livestock
Wm. & Daphne Van Tassell
1676 Hickory Lane
Provo, UT 84026

DeAnn Losee Wach
c/o Mark A. Losee
7696 S 2250 W.
West Jordan, UT 84084

Hal & Barbara Wilcken
5493 S. 640 W.
Murray, Ut 84123

Joseph Eugene Wilcken
Verda Wilcken
Myton, UT 84052

Leslie & Dena Wilcken
Rt 2 Box 11
Roosevelt, UT 84066

Leonard T. Wilcken
Box 1979
Roosevelt, UT 84066

Rosco & Vida Wilcken
Box 268
Duchesne, UT 84021

Emerson C. Willey
Boston Building
Salt Lake City, UT 84111

LuDeen Hall Winegar
Salt Lake City, UT

Kenneth J. Young
General Delivery
Neola, UT 84053

William H. Schroeder
5611 Tatteridge Dr.
Houston, Tx. 77069

SURFACE OWNERS

AA & M L.C.
2533 E. 6200 South
Salt Lake City, UT. 84121

Wayne & Richard Batty
716 S. 1500 W.
Vernal, UT 84078

Gilbert G. Beisel
Marjorie Beisel
4 Chandler
Rockledge, PA 19111

Carman Family Invest Co.
c/o Mildred Carman
Duchesne, UT 84021

Anita Luke Deppen
16 N. Diamond St.
Shamokin, PA 17872

Clarence A. Hawk
c/o John C. Zerr Jr.
Coldrun Road
Geigertown, PA 19523

Wayne & Moreen Henderson
Rt 3 Box 3671
Myton, UT 84052

Ruth Elizabeth Luke Henninger
Box 112
Shamokin, PA 17872

Dorothy M. Hudson
c/o Chapin & Armstrong
1201 NE 8th Street
Delroy Beach, FL 33483

Clarence J. King
c/o John C. Zerr Jr.
Coldrun Road
Geigertown, PA 19523

Ann W. Kuech, a widow
11828 Colman RD
Philadelphia, PA 19154

Nolan & Vickie Larsen
Box 25
Myton, UT 84052

Mt. Olympus Realty
Box 1067
Sandy, UT 84091

Nielson Farms
Box 638
Roosevelt, UT 84066

Brad & JoAnn H. Nelson
Box 638
Roosevelt, UT 84066

Ethan & Louise M. Nelson
Box 638
Roosevelt, UT 84066

Leslie & Alma Nelson
135 Oxford Place
Williamstown, N.J. 08094

Pride Lane Farms
Box 26
Heber, UT 84032

Ken & Katherine Prothero
10711 S. Whirlaway Ln
Sandy, UT 84092

L. Clark Roberts
Barbara Roberts
Box 156
Myton, UT 84052

Louis & Louise Roberts
Vernal, UT 84078

Loryn S. & Barbara H. Ross
RT 3635
Myton, UT 84052

Wayne L. & Jolynn B. Ross
2457 No. 1200 E.
Provo, UT 84604

Eleanor R. Schmidt
c/o John C. Zerr, Jr.
Coldrud Road
Geigertown, PA 19523

Sevilla E. Shomgard
1232 E. Center St.
Mahanoy City, PA 17948

Gertrude & Margaret Snyder
516 Pine St.
Tamaqua, PA 18252

State of Utah
State Lands and Forestry
111 Triad Center, #400
SLC, UT 84180-1203

United States of America
Bureau of Land Management
324 So State, #301
Salt Lake City, UT 84111

Hal Wilcken
Barbara D. Wilcken
5493 So. 640 West
Murray, UT 84123

Joseph Eugene Wilcken
Verda Wilcken
Myton, UT 84052

Larry T. Wilcken
Jean H. Wilcken
7024 N. Dry Fork
Vernal, UT 84078

John C. Zerr, Jr.
Coldrud Road
Geigertown, PA 19523

Paul Allen Zerr
Coldrud Road
Geigertown, PA 19523

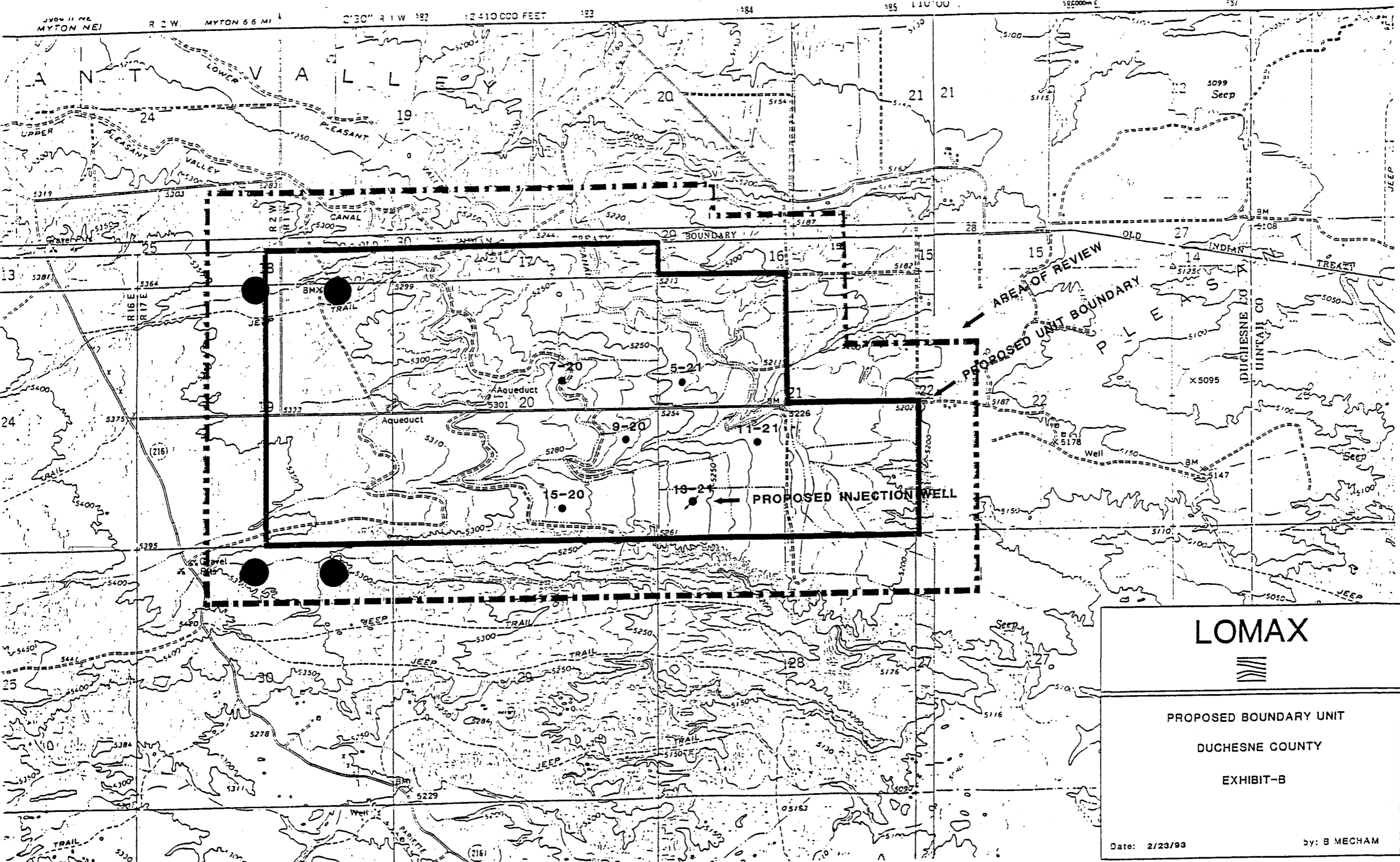
LOMAX EXPLORATION COMPANY

3/3/93

SURFACE CASING

WELL NAME	STATUS	SECTION TOWNSHIP RANGE	FOOTAGE	ELEVATION	SPUD DATE	TD	PBTD	PERFS	HOLE SIZE	CASING	WT	DEPTH	CEMENT SKS	TYPE
BOUNDARY FEDERAL #7-20	SIOW	SW/NE SEC 20 T8S - R17E	1941 FNL 2059 FEL	5292'KB	11/3/83	6900'	6206' SAND TOP @ 5988'	5814-23, 5832-39 5853-64, 5336-44 5363-66,	13	8-5/8	24#	278'	210	G
BOUNDARY FEDERAL #9-20	POW	NE/SE SEC 20 T8S - R17E	1947 FSL 650 FEL	5284'KB	11/18/82	6985'	6942'	6678-88, 6130-54, 5295-99, 5311-15, 4765-81, 4785-91	12-1/4	8-5/8	24#	282'	210	G
BOUNDARY FEDERAL #15-20	POW	SW/SE SEC 20 T8S - R17E	509 FSL 1994 FEL	5300'KB	6/30/83	6910'	6769'	5787-92, 5802-16 5824-5847	12-1/4	8-5/8	24#	283'	210	G
BOUNDARY FEDERAL #5-21	POW	SW/NW SEC 21 T8S - R17E	660 FWL 1981 FNL	5253'KB	6/21/84	6859'	6416'	6154-63, 70-78, 5350-56 5375-83	13	8-5/8	24#	257'	210	G
BOUNDARY FEDERAL #11-21	POW	NE/SW SEC 21 T8S - R17E	1915 FSL 2076 FWL	5251.5'KB	9/10/83	6000'	5919'	5417-25, 5427-35	13	8-5/8	24#	278'	210	G
BOUNDARY FEDERAL #13-21	SIOW PROPOSED INJECTOR	SW/SW SEC 21 T8S - R17E	515 FSL 517 FWL	5270'KB	6/30/82	5752'	5665' SAND TOP @ 5492'	5232-40 5257-5260, 5264-74	12-1/4	8-5/8	24#	238'	220	G

EXHIBIT C



LOMAX



PROPOSED BOUNDARY UNIT

DUCHESNE COUNTY

EXHIBIT-B

Date: 2/23/93

by: B MECHAM

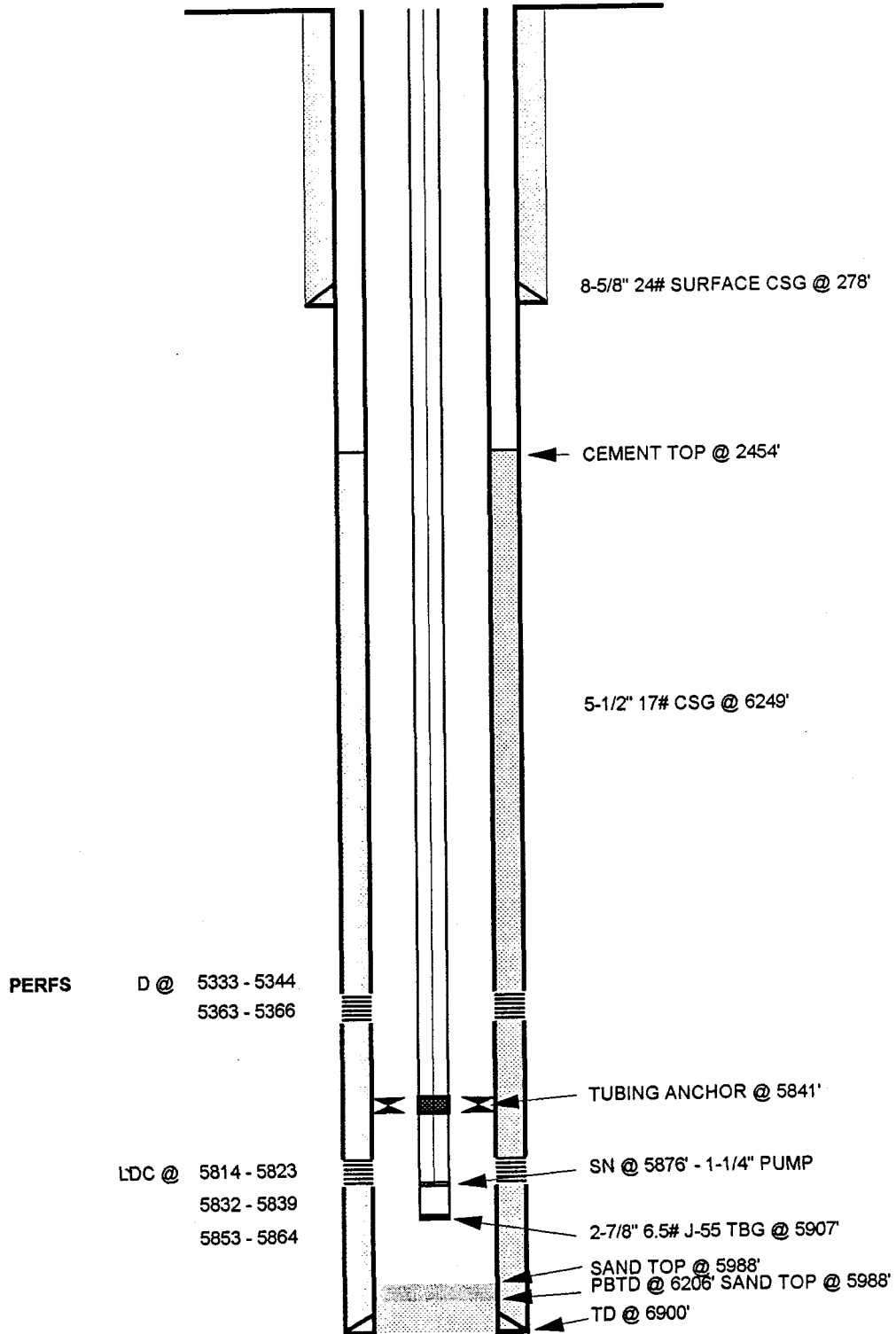
3/3/93

PRODUCTION CASING

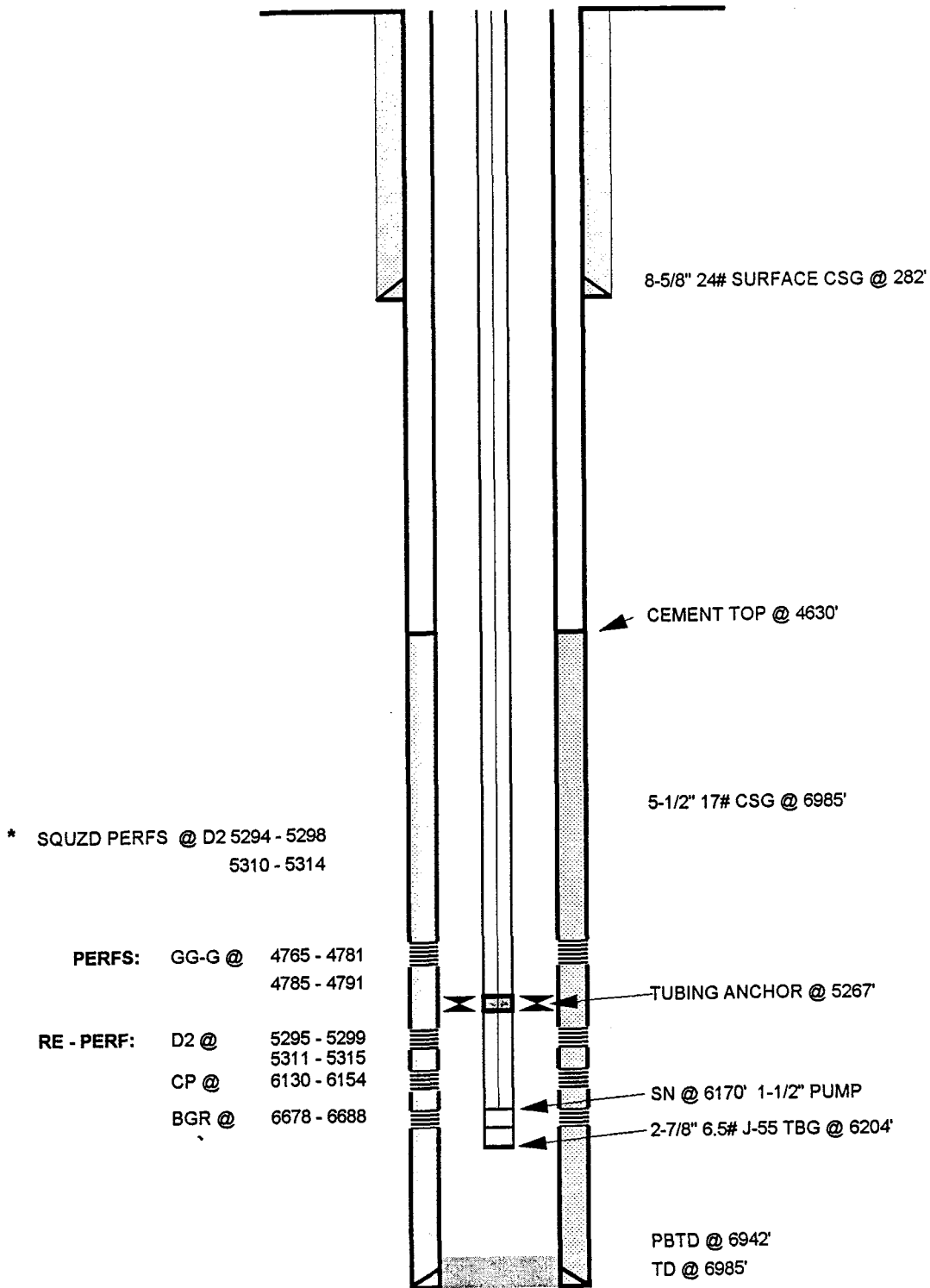
WELL NAME	HOLE SIZE	CASING	WT	DEPTH	CEMENT SKS	TYPE	CEMENT TOP	REMARKS
BOUNDARY FEDERAL #7-20	7-7/8	5-1/2	17#	6249'	150 350	Hifill Thixo- Tropic	2452'	5814-5864: 38,760 gals gelled KCL wtr, 119,080# 20/40 sand 5336-5344: Breakdown: AIR 3BPM, AIP 3000 psi, Max TP 3600 Established injection w/10 bbls 6.5 BPM @ 1900 psi Dropped 1 ball/bbl, balled off @ 92 bbls, 3000 psi. Surged balls off & flushed w/14 bbls S.D.
BOUNDARY FEDERAL #9-20	7-7/8	5-1/2	17#	6985'	623 485	BJ Lite RFC	4630'	6678-6688: 20,400 gals gelled 3% KCL wtr, 44,500# 20/40 sand 6130-6154: 36,000 gals gelled 3% KCL wtr, 115,000# 20/40 sand 5294-5315: 22,500 gals gelled 5% KCL wtr, 63,500# 20/40 sand 5295-5315: Squeezed & reperfed. Refraced w/6,630 gals gelled 5% KCL wtr; 10,000# 20/40 sand 4765-4791: Breakdown w/1500 gals 5% KCL wtr, ATP 4000 @ 8 BPM 10/2/91: Conducted a casing integrity test. Test csg to 500# - held
BOUNDARY FEDERAL #15-20	7-7/8	5-1/2	17#	6812'	350 300	Lodense Gypseal	1530'	5789-5846: 43,670 gals gelled 5% KCL wtr; 153,360# 20/40 sand 5787-5847: Refrac 1/92. Breakdown w/206 bbls treated wtr & ball sealers Frac w/62,700 gals gelled fluid, 30,000# 20/40 sand, 137,000# 16/30 sand.
BOUNDARY FEDERAL #5-21	7-7/8	5-1/2	17#	6460'	165 375	Lodense Gypseal	2008'	6154-6178: Breakdown w/2500 gals 5% KCL wtr & ball sealers 5350-5383: 18,800 gals 5% gelled KCL wtr, 51,800# 20.40 sand. Screened out on 6 ppg stage. 10/4/91: Conducted casing integrity test. Test csg to 500# - held.
BOUNDARY FEDERAL #11-21	7-7/8	5-1/2	17#	5969'	250	Lodense	1590'	5417-5435: Breakdown w/1400 gals 5% KCL wtr.
BOUNDARY FEDERAL #13-21	7-7/8	5-1/2	15.5#	5750'	180 285	Dowell Lt Dowell REC 10-0	1650'	5232-5274: 32,980 gals 3% gelled wtr; 80,000# 20/40 sand 5232-34,5257-59,5264-70: Reperforate & breakdown. Balled off w/91 bbls & 1 ball per bbl.

EXHIBIT C

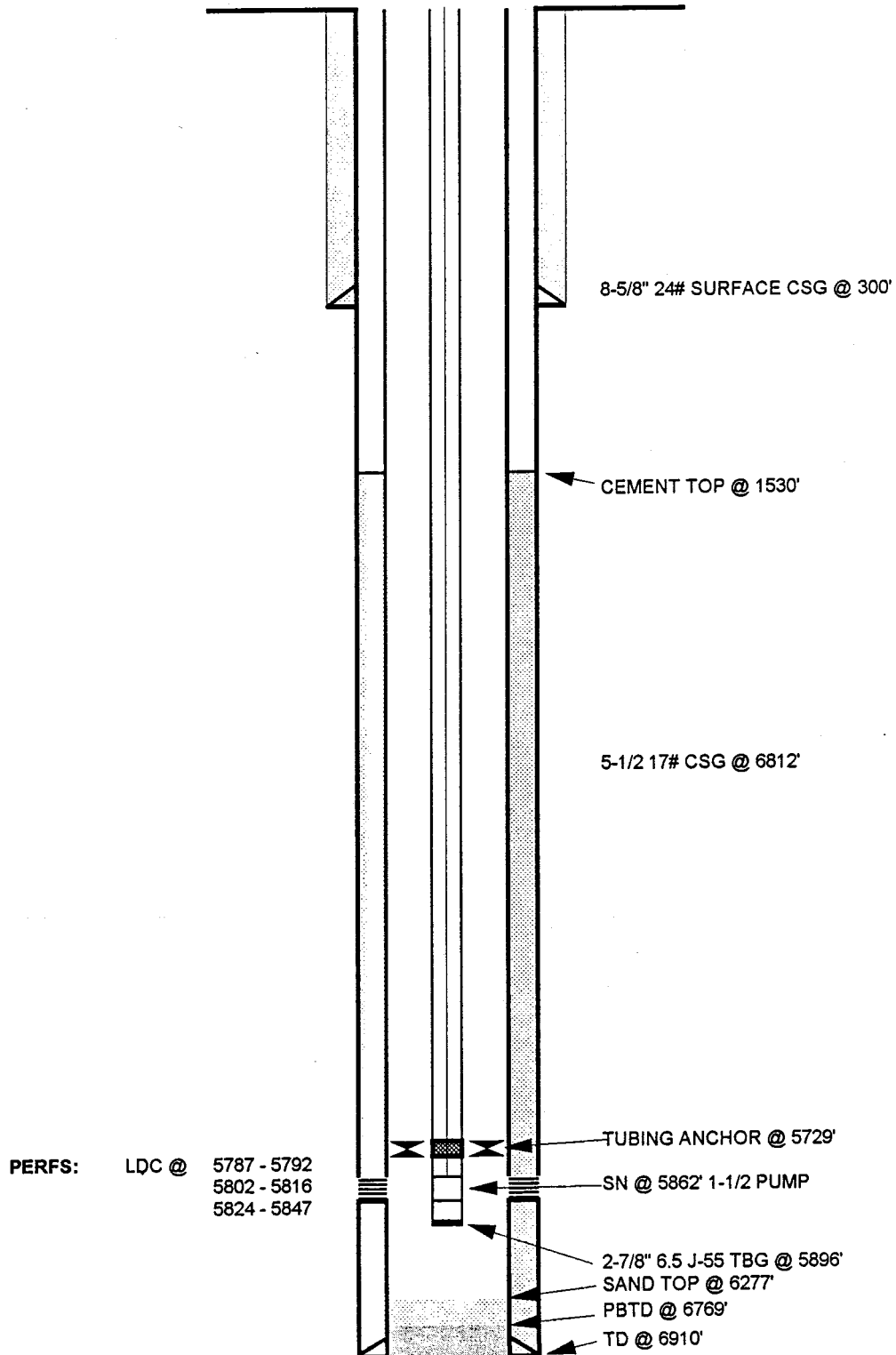
BOUNDARY FEDERAL # 7-20
SW/NE SEC 20, T8S, R17E
DUCHESNE COUNTY, UTAH



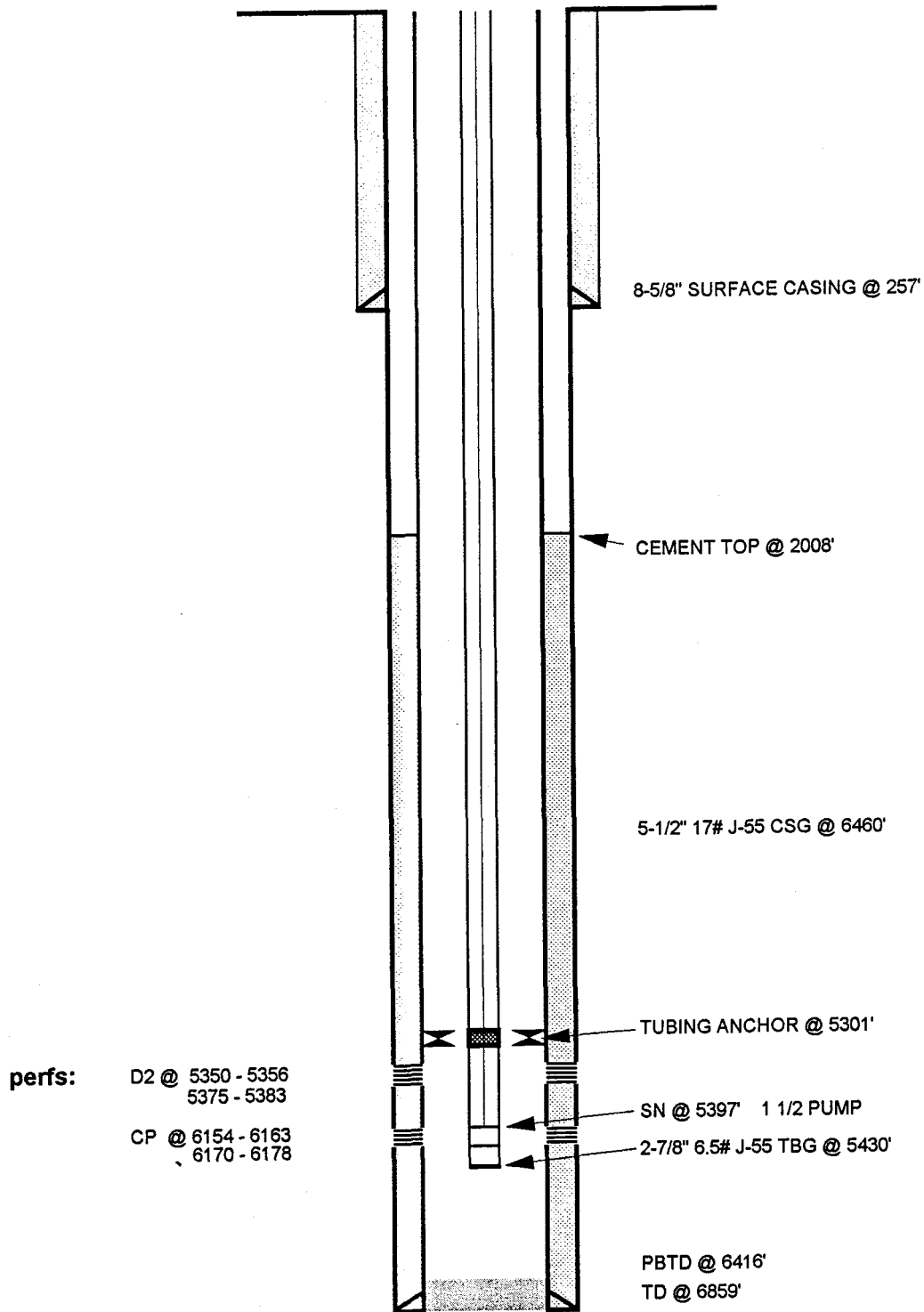
BOUNDARY FEDERAL # 9-20
NE/SE 20, T8S, R17E
DUCHESNE COUNTY, UTAH



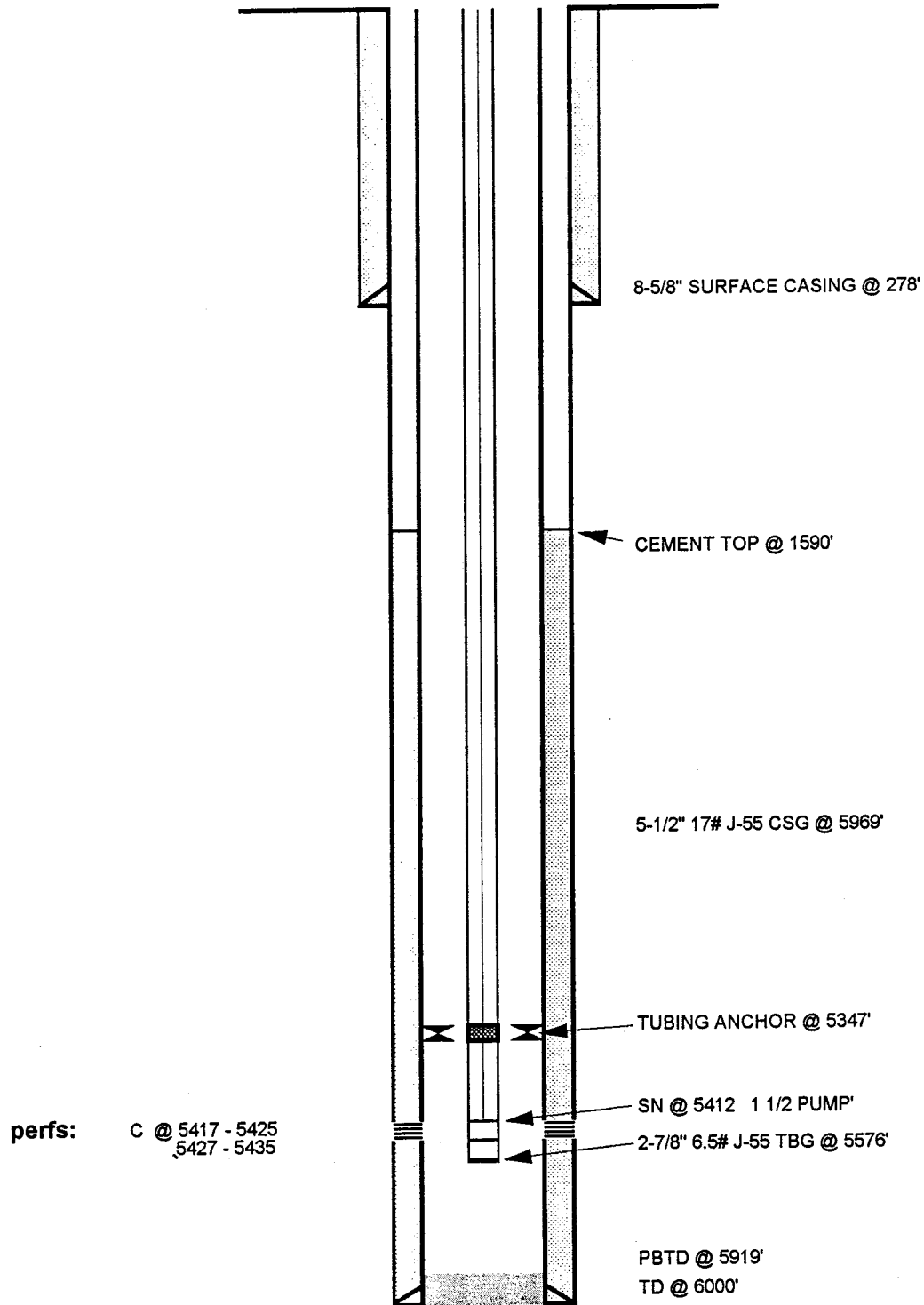
BOUNDARY FEDERAL # 15-20
SW/SE SEC 20,T8S, R17E
DUCHESNE COUNTY,UTAH



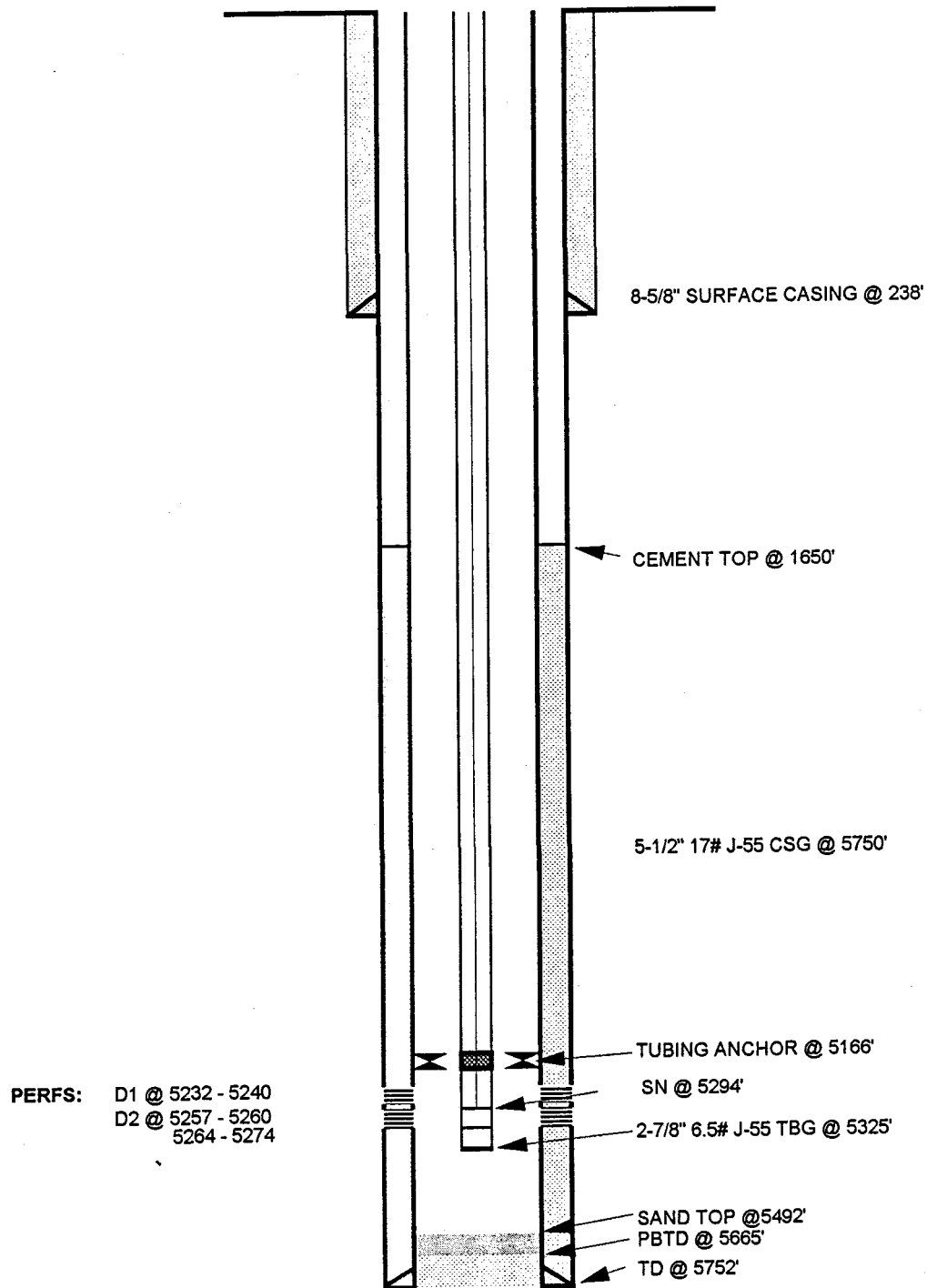
**BOUNDARY FED 5-21
SW/NW SECTION 21, T8S, R17E
DUCHESNE, UTAH**



BOUNDARY FED 11-21
NE/SW SECTION 21, T8S, R17E
DUCHESNE, UTAH



BOUNDARY FED 13-21
SW/SW SECTION 21, T8S, R17E
DUCHESNE, UTAH

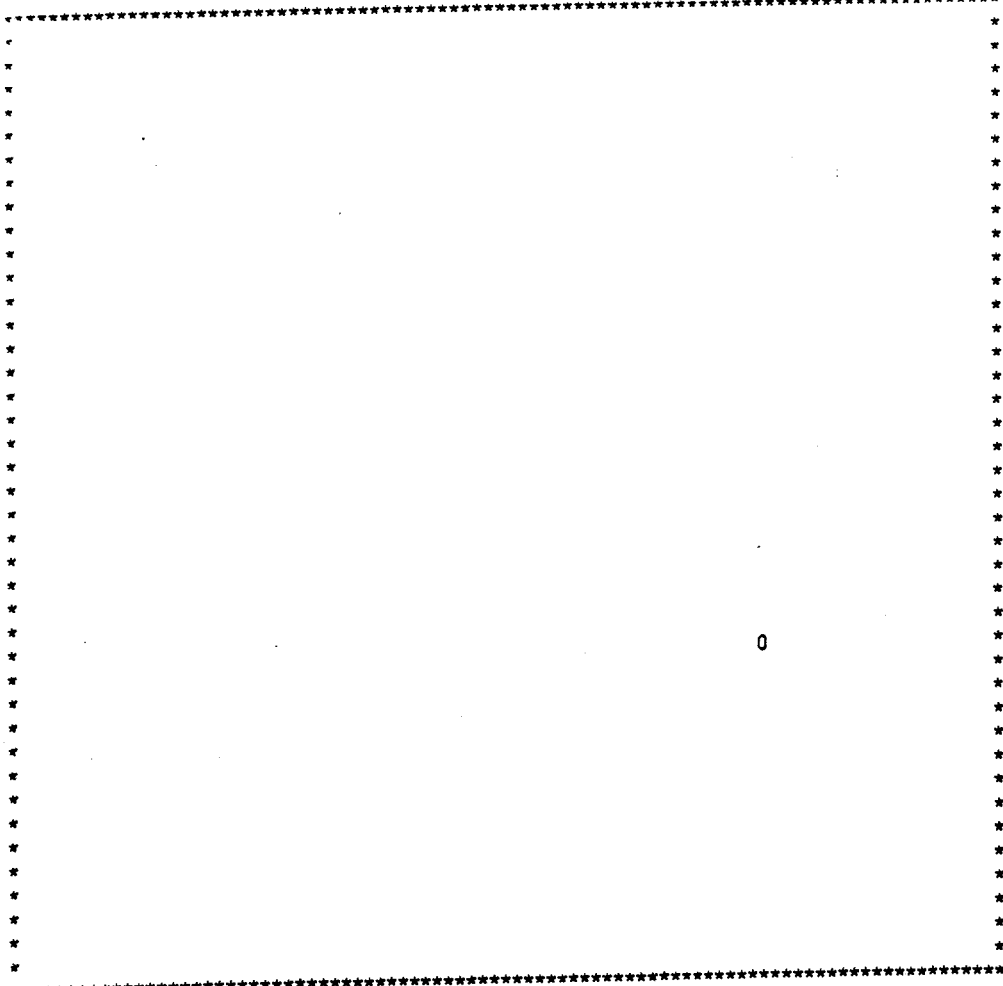


UTAH DIVISION OF WATER RIGHTS
WATER RIGHT POINT OF DIVERSION PLOT CREATED TUE, JUN 2, 1992, 2:58 PM
PLOT SHOWS LOCATION OF 1 POINTS OF DIVERSION

PLOT OF ALL QUARTER(S) IN SECTION 16 TOWNSHIP 8S RANGE 17E SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 1000 FEET

N O R T H



UTAH DIVISION OF WATER RIGHTS
 NWPLAT POINT OF DIVERSION LOCATION PROGRAM

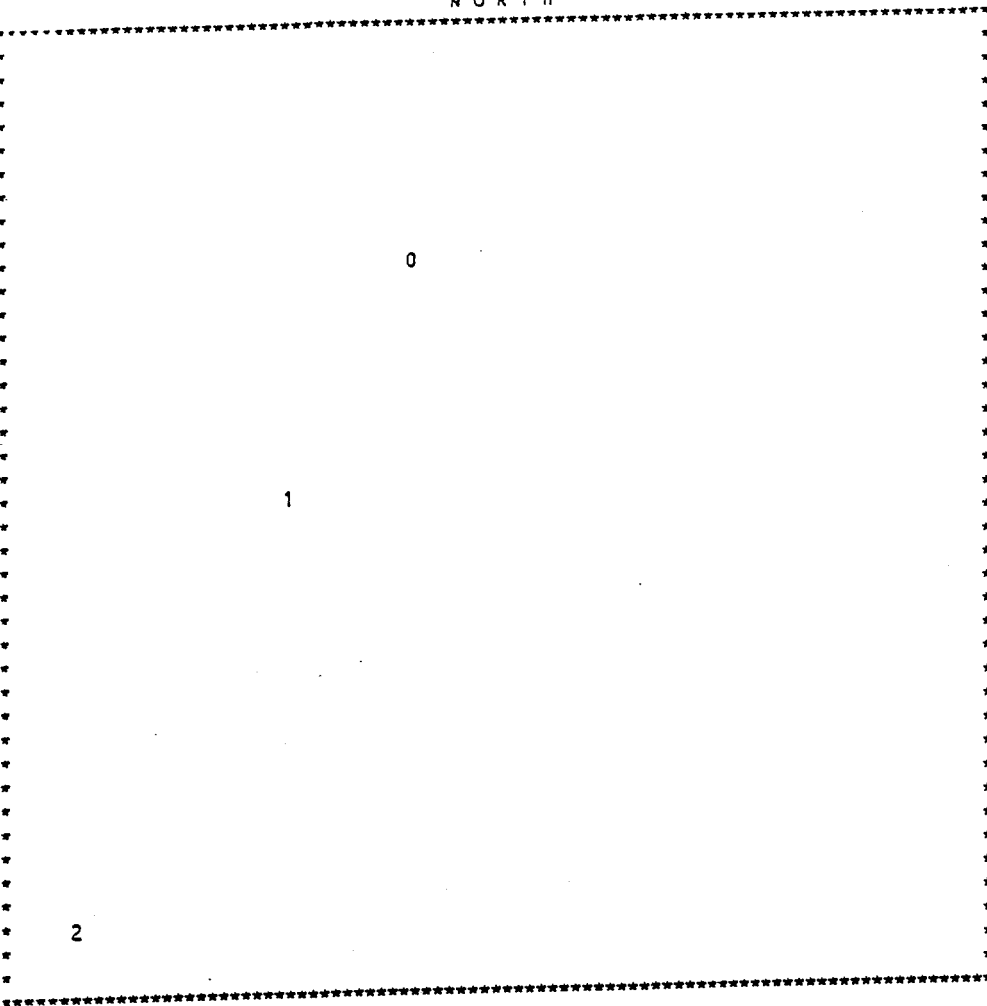
MAP CHAR	WATER RIGHT	QUANTITY CFS AND/OR AC-FT	SOURCE DESCRIPTION or WELL INFO DIAMETER DEPTH YEAR LOG	POINT OF DIVERSION DESCRIPTION NORTH EAST CNR SEC TWN RNG B&M	U A P T S U P R N P E E U G T E N P R R R W P D
47	1340	4.0000	.00 Pleasant Valley Wash (Pariette	N 1780 W 1290 SE 16 4S 1W US	X X
WATER USE(S): IRRIGATION			11 North 500 West(46-13)		PRIORITY DATE: 09/14/1953
Farnsworth, Brent and Tamara Sue			Roosevelt		UT 84066

UTAH DIVISION OF WATER RIGHTS
WATER RIGHT POINT OF DIVERSION PLOT CREATED TUE, JUN 2, 1992, 2:58 PM
PLOT SHOWS LOCATION OF 3 POINTS OF DIVERSION

PLOT OF ALL QUARTER(S) IN SECTION 17 TOWNSHIP 8S RANGE 17E SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 1000 FEET

N O R T H



UTAH DIVISION OF WATER RIGHTS
 NWPLAT POINT OF DIVERSION LOCATION PROGRAM

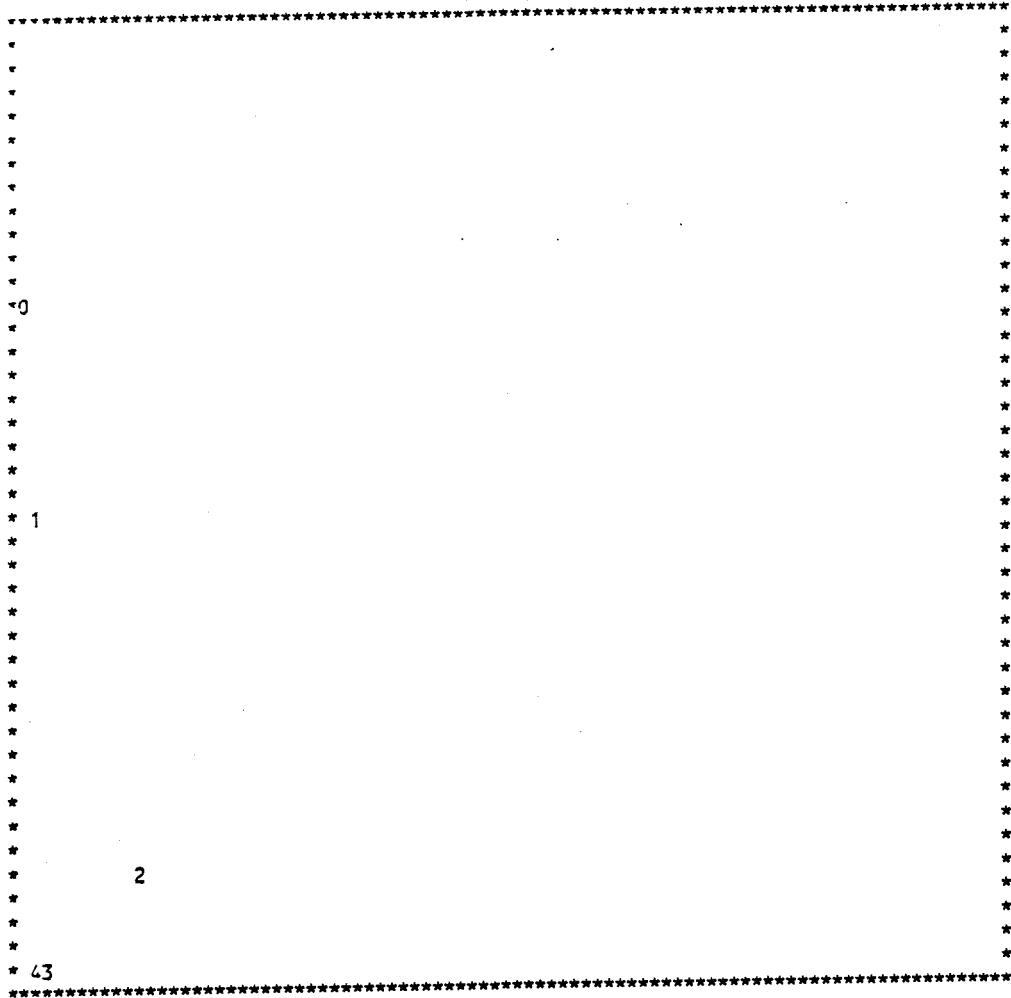
MAP SHEET	WATER RIGHT	QUANTITY CFS	AND/OR AC-FT	SOURCE DESCRIPTION DIAMETER DEPTH	WELL INFO YEAR LOG	POINT OF DIVERSION DESCRIPTION NORTH EAST	CNR SEC	TWN	RNG B&M	U N	A P	T P	S R	U P	R R	W P	D D
2	47 1566	.1000		.00 (2) Unnamed Springs		N 1320 E 2202	W4 17	4S	1W US	X							X
				WATER USE(S): IRRIGATION STOCKWATERING													
				Higley, Ruby			Myton										UT 84052
1	47 1566	.1000		.00 (2) Unnamed Springs		N 50 E 1533	W4 17	4S	1W US	X							X
				WATER USE(S): IRRIGATION STOCKWATERING													
				Higley, Ruby			Myton										UT 84052
2	47 1339	.0150		.00 Underground Water Well		N 375 E 347	SW 17	4S	1W US							X	X
				WATER USE(S): IRRIGATION DOMESTIC STOCKWATERING													
				Higley, Ken			Myton										UT 84052

UTAH DIVISION OF WATER RIGHTS
WATER RIGHT POINT OF DIVERSION PLOT CREATED TUE, JUN 2, 1992, 3:00 PM
PLOT SHOWS LOCATION OF 5 POINTS OF DIVERSION

PLOT OF ALL QUARTER(S) IN SECTION 18 TOWNSHIP 8S RANGE 17E SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 1000 FEET

N O R T H



NWPLAT

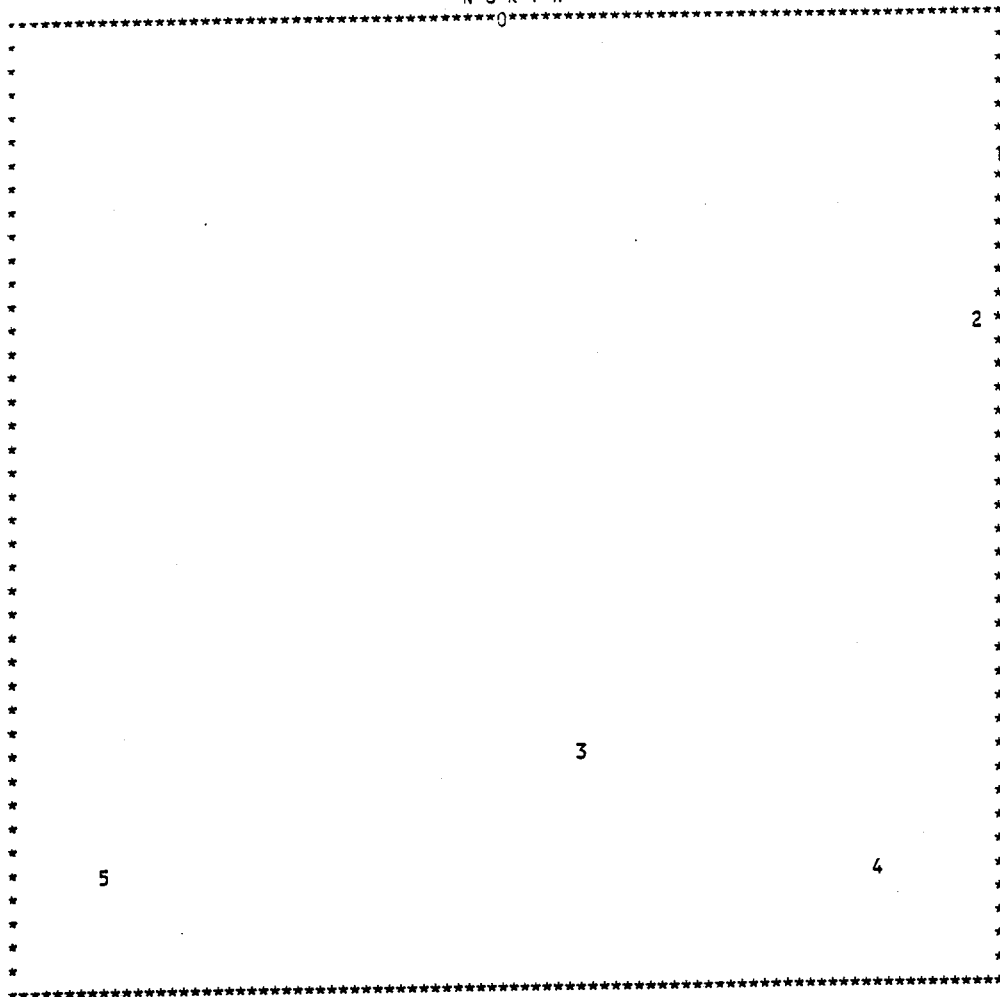
EXHIBIT C-9

UTAH DIVISION OF WATER RIGHTS
WATER RIGHT POINT OF DIVERSION PLOT CREATED THU, JUN 25, 1992, 11:52 AM
PLOT SHOWS LOCATION OF 6 POINTS OF DIVERSION

PLOT OF ALL QUARTER(S) IN SECTION 21 TOWNSHIP 8S RANGE 17E SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 1000 FEET

N O R T H



NWPLAT

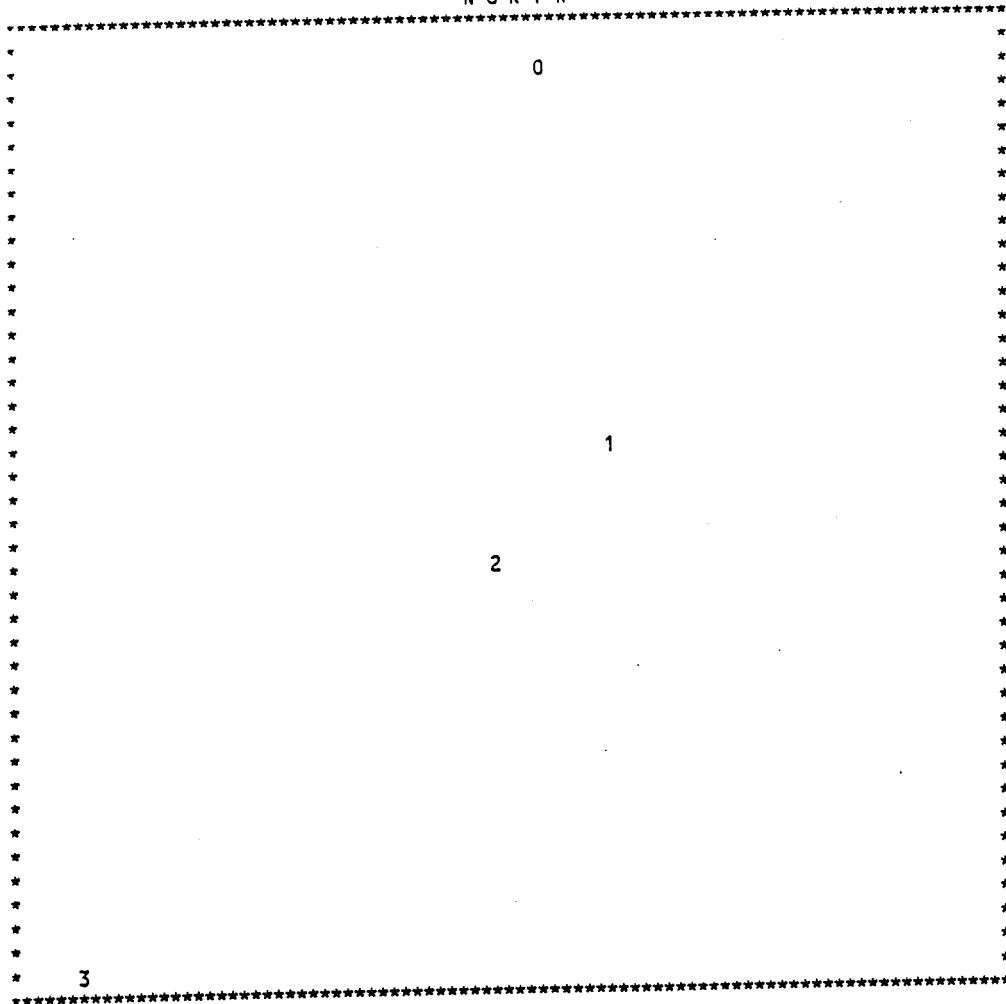
EXHIBIT C-10

UTAH DIVISION OF WATER RIGHTS
WATER RIGHT POINT OF DIVERSION PLOT CREATED TUE, JUN 2, 1992, 3:01 PM
PLOT SHOWS LOCATION OF 4 POINTS OF DIVERSION

PLOT OF ALL QUARTER(S) IN SECTION 22 TOWNSHIP 8S RANGE 17E SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 1000 FEET

N O R T H



NWPLAT

EXHIBIT C-11



A Procter & Gamble Co.

P.O. BOX 1898
OFFICE: 214/872-3011CORSICANA, TEXAS 75110
PLANT: 214/874-3706
(U.S.): 800/527-2510TWX: 910/860-5100
(TX): 800/442-6261

WATER ANALYSIS REPORT

COMPANY Lomax Exploration ADDRESS Roosevelt, UT 84066 DATE: 2-18-38
 SOURCE 13-21 DATE SAMPLED 2-17-88 ANALYSIS NO. _____
 Analysis Mg/l (ppm) *Meq/l

1. pH	<u>8.6</u>		
2. H ₂ S (Qualitative)	<u>2.5</u>		
3. Specific Gravity	<u>1.019</u>		
4. Dissolved Solids		<u>21,604</u>	
5. Suspended Solids			
6. Anaerobic Bacterial Count			C/MI
7. (Phenolphthalein) Alkalinity (CO ₃)		<u>900</u>	
8. (Methyl Orange) Alkalinity (HCO ₃)			
9. Bicarbonate (HCO ₃)		<u>1,098</u>	+61 <u>18</u> HCO ₃
10. Sulfates (SO ₄)		<u>50</u>	+48 <u>1</u> Cl
11. Chlorides (Cl)		<u>12,744</u>	+35.5 <u>359</u> SO ₄
12. Calcium (Ca)		<u>6</u>	+20 <u>0</u> Ca
13. Magnesium (Mg)		<u>2</u>	+12.2 <u>0</u> Mg
14. Total Hardness (CaCO ₃)		<u>23</u>	
15. Total Iron (Fe)		<u>4.0</u>	
16. Barium (Ba)			
17. Phosphate Residuals			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

0	Ca	←	HCO ₃	18
0	Mg	→	SO ₄	1
378	Na	→	Cl	359

Saturation Values

Ca CO₃Ca SO₄ · 2H₂OMg CO₃

Distilled Water 20°C

13Mg/l

2,090 Mg/l

103 Mg/l

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04				
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00		18		1521
Na SO ₄	71.03		1		71
Na Cl	58.46		359		20,987

REMARKS _____

Formation Tops
Boundary Federal 13-21

<u>Formation</u>	<u>Log Depth</u>	<u>K.B. 5270</u>
Uinta Formation	Surface	
Green River Formation	1860'	+3410'
Garden Gulch Member	4164'	+1106'
Point Three Marker	4790'	+ 480'
"X" Marker	4997'	+ 273'
"Y" Marker	5033'	+ 237'
Douglas Creek Member	5160'	+ 110'
"B" Limestone	5566'	- 296'
T.D.	5750'	- 480'

HALLIBURTON SERVICES

FRACTURING SERVICE TREATING REPORT

HALLIBURTON
DI N

Denver

HALLIBURTON
LOC

rnal

BILLED ON
TICKET NO. 677904

FORM #2012 R-3

WELL DATA

Field So. Myton Sec. TWP. Rng. County Duchesne State Utah

Formation Name Green River Type

Formation Thickness From To

Initial Prod: Oil Bpd. Water Bpd. Gas Mcfd.

Present Prod: Oil Bpd. Water Bpd. Gas Mcfd.

Isolation Tool # Mandrel Size Extensions in.

Packer Type Set At

Bottom Hole Temp. RBP@

Head Or Flange 6 5000 4 Way Pbtd

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	17	5.5	Surf	TD	4000
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS				5814		
PERFORATIONS						
PERFORATIONS						

MATERIALS

Treat. Fluid 3% KCL Density Lb./Gal. @ API

Disol. Fluid Density Lb./Gal. @ API

Prop. Type Ottawa Size 20/40 Lb. 129,000

Prop. Type Size Lb.

Radioactive Tracer Carrier Units-MCI

Surfactant Type LoSurf-259 Gal. 55 @ 1 /1000 Gal.

Surfactant Type Gal. @ /1000 Gal.

Fluid Loss Type WAC-11 Gal.-Lb. 500-Pad @ 40 /1000 Gal.

Gelling Agent WG-12 Gal.-Lb. 2000 @ Standby /1000 Gal.

Gelling Agent LGC (Gal.-Lb. 3500 @ 60-75 /1000 Gal.

Breaker Type GBW-3 Gal.-Lb. 25 @ .5 /1000 Gal.

Breaker Type AP Gal.-Lb. 25 @ .5 /1000 Gal.

Crosslinker CL-18 Gal.-Lb. 60 @ 1.5 /1000 Gal.

Stabilizer Gal.-Lb. @ /1000 Gal.

Buffer Type Gal.-Lb. @ /1000 Gal.

Buffer Type Gal.-Lb. @ /1000 Gal.

Bactericide BE-3 Gal.-Lb. 8 @ .1 /1000 Gal.

Non-Foamer Gal.-Lb. @ /1000 Gal.

Clay Control Gal.-Lb. @ /1000 Gal.

Diverter Gal.-Lb. @ /1000 Gal.

Friction Reducer Gal.-Lb. @ /1000 Gal.

Perfpac Balls Qty. Size S.G.

Other NF-1 - 10 gal.

KCL - 12,000 lbs

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11/25</u>	DATE <u>11/25</u>	DATE <u>11/25</u>	DATE <u>11/25/83</u>
TIME <u>06:00</u>	TIME <u>10:00</u>	TIME <u>12:45</u>	TIME <u>13:15</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
Patton	Operator	Vernal
Vredenberg	3314-7593	"
Eaton	3763	"
Sanchez	3054	"
Johnson	3702-6631	"
Frazer	4637-8089	"
Jemmings	4042-7548	"
Garthwaite	50461-6463	"
Garvin	4375	"
Levesque	1633-2297	"
Dall	7263	"
Pratt	Sand	"
Ussery	Mech	"
Yeager- Jacquier,	Supv	"
Dansie	"	"

ACID DATA

Acid Type % Gal.-Bbl.

Acid Type % Gal.-Bbl.

Surfactant Type Gal. @ /1000 Gal.

Surfactant Type Gal. @ /1000 Gal.

NE Agent Type Gal. @ /1000 Gal.

Clay Control Type Gal.-Lb. @ /1000 Gal.

Corrosion Inhibitor Gal.-Lb. @ /1000 Gal.

Corrosion Inhibitor Gal.-Lb. @ /1000 Gal.

Cracking Inhibitor Gal.-Lb. @ /1000 Gal.

Iron Sequester Gal.-Lb. @ /1000 Gal.

Friction Reducer Gal.-Lb. @ /1000 Gal.

PRESSURES IN PSI

Circulating Displacement

Breakdown Maximum

Average 2600 Fracture Gradient .74

ISIP 1800 5 Min. 1680 10 Min. 1640 15 Min. 1590

Ordered 5000 Available 5000 Used 2868

AVERAGE RATE IN BPM

Treating Displ. Overall

SUMMARY

Preflush: Bbl.-Gal. Type

Load & Bkdn: Bbl.-Gal. Pad: Scf-Bbl.-Gal.

Treatment: Bbl.-Gal. Displ: Bbl.-Gal. 12,000

Gas Assist Tons-Scf @ Scf./Bbl.

Foam Quality % Total Volume Foam Bbl.-Gal.

Total Volume: Bbl.-Gal. 44,280 Fluid-Foam

REMARKS

Customer Representative X Ken Allen

Copies Requested

Halliburton Operator Robert Patton

EXHIBIT G-1

CUSTOMER JOMAX

LEASE

Boundary Fed.

WELL NO.

7-20

JOB TYPE

Versa Gel 1500

DATE

11/25/83

Date 2/1/92 Field No. 07192 Job No. 2-046-42
Customer Lomax Well Name FCB-1S-20
Field S. mylon Sec. 20-8-NE TWP RGE
County DUCHESNE State UT District 42

TREATMENT REPORT

FORMATION DATA

Great River
Perf Dia. .43 in Perfs. 5787-92, 5802-16, 5824, 47
Perf Dia. in Perfs. 164 Holes +
New Zones Oil Gas Injection Disposal Other (specify)
Treatment History Vol Gall Fluid Remarks

PIPE DATA

Testing Cond. Casing Tubing Annulus Manifold
Cond Gap Gal Casing Tubing Annulus Hole
Tubing O.D. 27/8 5/2 In WI 6.5 17# lb/ft Grade J-55 Run to 5728
Casing O.D. In WI lb/ft Grade K-55 Set at
Casing O.D./Inner O.D. In WI lb/ft Grade Set from to
Packer set at 5728 Packer type Packer string ID In. O.D. In. PB/TD Hole Dia at pay in

TREATMENT DATA (At Blender)

Pad Fluid Pad Vol gal KCL % Aux Mtrls
Frac Fluid 1 Fluid 1 Vol gal KCL % Aux Mtrls
Frac Fluid 2 Fluid 2 Vol gal KCL % Aux Mtrls
Frac Fluid 3 Fluid 3 Vol gal KCL % Aux Mtrls
Frac Fluid 4 Fluid 4 Vol gal KCL % Aux Mtrls
Flush Flush Vol gal KCL % Flush Aux Mtrls
Acid Acid Vol gal strength % Acid Aux Mtrls
Acid Flush Acid Flush Vol gal KCL % Acidize via
Ball Sealer Dia in Type RCN 7/8 1" Stg 1 Stg 2 Stg 3 Stg 4 Stg 5
Other
Recommended Procedure Break down 4/100 balls treated H₂O
DROP 50 balls SCALERS THEN SPACE BALLS
LAST 50 balls DROPPED 100 BALL SCALERS
Hole loaded with
Source: FOX-GRADE .85 B/H T/PSI 4969 + -

Prop Type	Mesh	WI (lbs)
1		
2		
3		
4		
Max Prop	lb/gal	Tot lbs

ISIP Breakdown 2430
ISIP Frac.
5 min
10 min
Final in. min.
Treating Press (PSI): Max 3570
Treating Avg. 3500
Operator's Max. 4000
Avg. Inj. Rate 6.3
Total load to recover 200

TREATMENT PROCEDURE

Time AM/PM	Treating Press (PSI)		Inj. Rate Fluid	Inj. Rate CO ₂	Inj. Rate N ₂	Prop Conc LB/GAL	Total BBLS Pumped	Remarks
	Tubing	CSG/ANN						
1000								ONCOC RIG UP P/TEST SAFETY MEET
1129								FIN B/SIDE TEST TO 3500 PSI
1200								ST. B/COIN
	150	970	5.0				0	
	3000	1000	6.4				10	
	3500	1280	6.3				50	
1214	3520	1700	6.3				100	ST. 50 balls
	3490	1410	6.3				134	BALL ON PERF
	3480	1680	6.3				157	
	3480	1200	6.3				160	DROP 100 BALL SCALERS
	3520	1700	6.3				194	B/PERF (100)
	3540	1800	6.3				192	
	3550	1800	6.3				193	
	3570	1810	6.3				197	
	3570						206	END TREATMENT
								ISIP 2430



EXHIBIT H

P.O. Box 217
Roosevelt, Utah 84066

Office (801) 722-5066
Fax (801) 722-5727

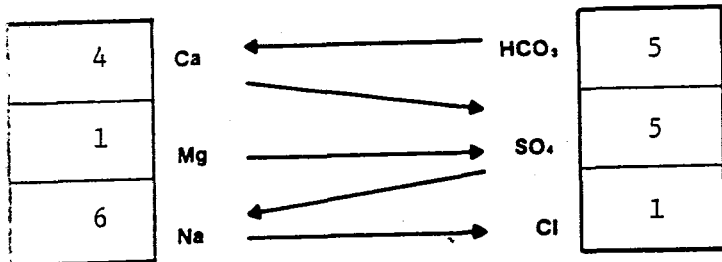
WATER ANALYSIS REPORT

COMPANY LOMAX ADDRESS _____ DATE: _____
SOURCE JOHNSON WATER SUPPLY DATE SAMPLED 4-7-92 ANALYSIS NO. _____

	Analysis	Mg/l (ppm)	*Meq/l
1. PH	<u>8.4</u>		
2. H ₂ S (Qualitative)	<u>.5</u>		
3. Specific Gravity	<u>1.001</u>		
4. Dissolved Solids		<u>812</u>	
5. Suspended Solids			
6. Anaerobic Bacterial Count	<u>CI</u>	<u>C/Ml</u>	
7. Methyl Orange Alkalinity (CaCO ₃)			
8. Bicarbonate (HCO ₃)		<u>300</u>	<u>+61</u>
9. Chlorides (Cl)		<u>50</u>	<u>+35.5</u>
10. Sulfates (SO ₄)		<u>225</u>	<u>+48</u>
11. Calcium (Ca)		<u>80</u>	<u>+20</u>
12. Magnesium (Mg)		<u>19</u>	<u>+12.2</u>
13. Total Hardness (CaCO ₃)		<u>280</u>	
14. Total Iron (Fe)		<u>.4</u>	
15. Barium (Qualitative)			
16. Phosphate Residuals			

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/l	=	Mg/l
Ca (HCO ₃) ₂	81.04		<u>4</u>		<u>324</u>
Ca SO ₄	68.07				
Ca Cl ₂	55.50				
Mg (HCO ₃) ₂	73.17		<u>1</u>		<u>73</u>
Mg SO ₄	60.19				
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03		<u>5</u>		<u>355</u>
Na Cl	58.46		<u>1</u>		<u>59</u>



Saturation Values

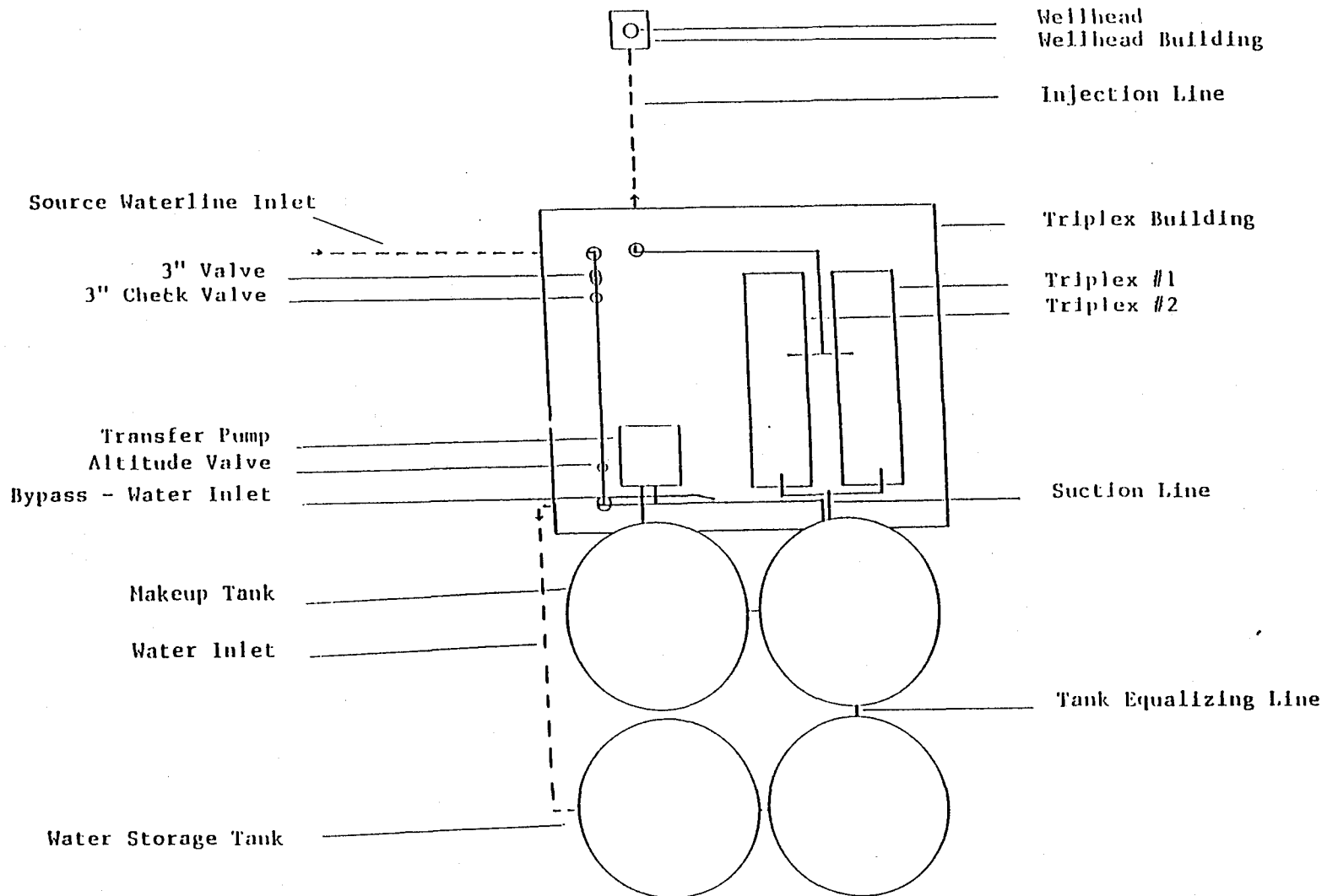
Distilled Water 20°C

Ca CO ₃	13 Mg/l
Ca SO ₄ · 2H ₂ O	2,090 Mg/l
Mg CO ₃	103 Mg/l

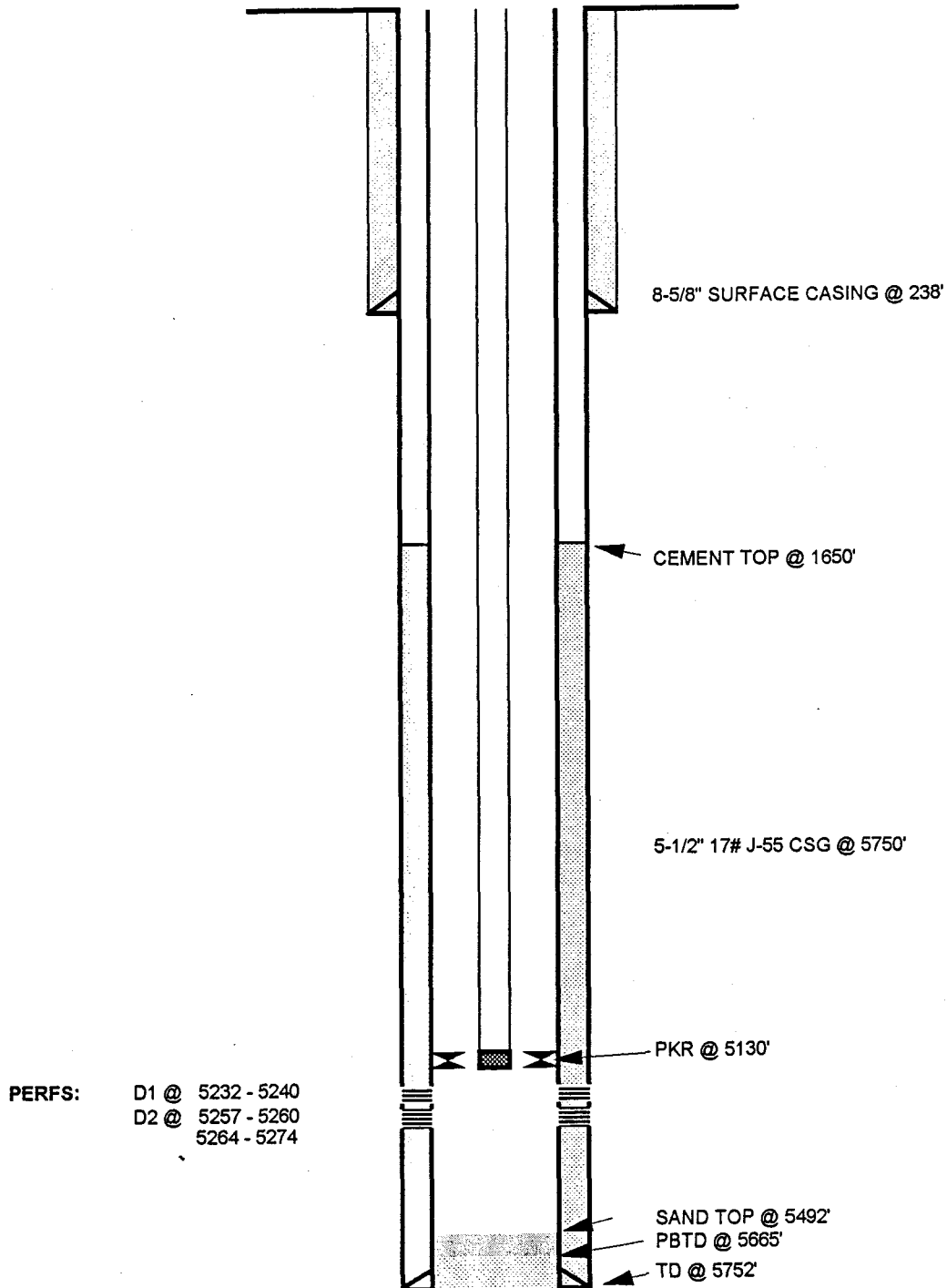
REMARKS _____

SURFACE SCHEMATIC

EXHIBIT M-1



BOUNDARY FED 13-21
SW/SW SECTION 21, T8S, R17E
DUCHESNE, UTAH
WATER INJECTOR



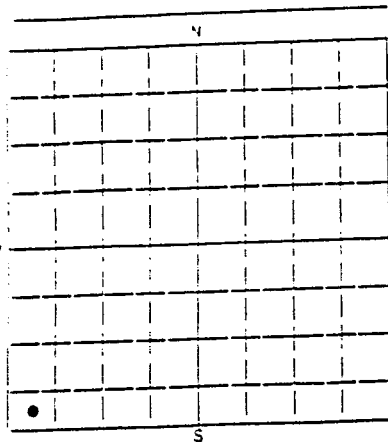


PLUGGING AND ABANDONMENT PLAN

NAME AND ADDRESS OF FACILITY

Boundary Federal #13-21
Section 21, T8S, R16E
Duchesne County, Utah

NAME AND ADDRESS OF OWNER/OPERATOR

Lomax Exploration Company
P.O. Box 1446
Roosevelt, UT 84066LOCATE WELL AND OUTLINE UNIT ON
SECTION PLAT — 640 ACRES

STATE

Utah

COUNTY

Duchesne County

PERMIT NUMBER

SURFACE LOCATION DESCRIPTION

SW 1/4 OF SW 1/4 OF SECTION 21 TOWNSHIP 8S RANGE 17E

LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT

Surface
Location 515 ft. from (N/S) S Line of quarter section
and 517 ft. from (E/W) W Line of quarter section

TYPE OF AUTHORIZATION

- ☐
- Individual Permit
-
- ☒
- Area Permit
-
- ☐
- Rul.

Number of Wells 1

WELL ACTIVITY

- ☐
- CLASS I
-
- ☒
- CLASS II
-
- ☐
- Brine Disposal
-
- ☒
- Enhanced Recovery
-
- ☐
- Hydrocarbon Storage
-
- ☐
- CLASS III

Lease Name Boundary Federal

Well Number #13-21

CASING AND TUBING RECORD AFTER PLUGGING

METHOD OF EMPLACEMENT OF CEMENT PLUGS

- ☒
- The Balance Method
-
- ☐
- The Dump Bailer Method
-
- ☐
- The Two-Plug Method
-
- ☐
- Other

SIZE	WT(LB./FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
5-1/2	15.5#		5750	7-7/8"
8-5/8	24#		238	12-1/4

CEMENTING TO PLUG AND ABANDON DATA:

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	5-1/2	5-1/2	5-1/2				
Depth to Bottom of Tubing or Drill Pipe (ft.)	5100	2400	300				
Sacks of Cement To Be Used (each plug)	25	25	38				
Slurry Volume To Be Pumped (cu. ft.)	200	200	300				
Calculated Top of Plug (ft.)	4900	2200	Surface				
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)							

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)

From	To	From	To
5232'	5240'		
5257'	5260'		
5264'	5274'		

Estimated Cost to Plug Wells

CERTIFICATION

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)

Brad Mecham
Regional Production Manager

SIGNATURE

DATE SIGNED

3/1/93

EXHIBIT Q-2

LOMAX EXPLORATION COMPANY

BOUNDARY FEDERAL #13-21
T8S, R17E, SECTION 21

PLUGGING & ABANDONMENT PLAN

1. POOH w/tubulars.
2. RIH Set CIBP @ 5100'.
3. Set 200' cement plug over CIBP @ 5100'.
4. Set 200' cement plug @ 2400'.
5. Set 300' plug across 8-5/8" shoe @ 238' to surface. (Plug @ 0 to 300'.)

EPA\13-21P&A.PRO

RECEIVED MAR 22 1993

**WELL
SERVICE, INC.**

P.O. BOX 2356 • WILLISTON, NORTH DAKOTA 58801
PHONE (701) 774-3001 • TELE-FAX (701) 774-0774

March 16, 1993

Mr. Brad Mecham
Regional Production Manager
Lomax Exploration Company
P.O. Box 1446
Roosevelt, UT 84066

RE: Boundary Federal #13-21 Oil Well Lease

Dear Brad:

Thank you for faxing to me the information regarding the #13-21 well. I have reviewed the schematic and procedures and at this time Sun Well Service is prepared to offer the following bid.

Sun Well Service, Inc. will permanently plug and abandon the Boundary Federal #13-21 well, providing all equipment, materials, and personnel necessary to the operations, for the bid price of \$11,500.00.

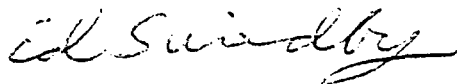
In the event of abnormal conditions, such as collapsed casing, the inability to get setting tools to the required depth, the state regulatory agency requiring additional volumes of cement, the need for water removal or tank bottom cleaning, etc., any excess rig time will be billed to Lomax Exploration Company at our posted rate and any third party services at list.

This bid will be honored for 60 days and will depend upon the availability of our rig being in the area.

Thank you, Brad, for considering Sun Well Service. If you have any questions, please feel free to call me at (701) 774-3001, or 1-800-822-9981.

Sincerely,

SUN WELL SERVICE, INC.



Mr. Ed Sundby
Sales Representative

ES:dl

EXHIBIT R

STANDBY TRUST AGREEMENT

U.S. Environmental Protection Agency
Underground Injection Control
Financial Responsibility Requirement

TRUST AGREEMENT, the "Agreement," entered into as of April 12, 1993
(date)

by and between LOMAX EXPLORATION COMPANY,
(name of owner or operator)

a TEXAS CORPORATION, the "Grantor,"
(name of state) (corporation, partnership,
association, or proprietorship)

and NORWEST BANK DENVER, N.A., (X) incorporated in the
(name of corporate trustee,

State of COLORADO or () a national bank, the "Trustee."

WHEREAS, the United States Environmental Protection Agency, "EPA," an agency of the United States Government, has established certain regulations applicable to the Grantor, requiring that an owner or operator of an injection well shall provide assurance that funds will be available when needed for plugging and abandonment of the injection well, and

WHEREAS, the Grantor has elected to obtain (X) a surety bond () a letter of credit and establish a standby trust to provide all or part of such financial assurance for the facility(ies) identified herein, and

WHEREAS, the Grantor, acting through its duly authorized officers, has selected the Trustee to be the trustee under this Agreement, and the Trustee is willing to act as trustee,

NOW, THEREFORE, the Grantor and the Trustee agree as follows:

Section 1. Definitions. As used in this Agreement:

(a) The term "Grantor" means the owner or operator who enters into this Agreement and any successors or assigns of the Grantor.

(b) The term "Trustee" means the Trustee who enters into this Agreement and any successor Trustee.

(c) "Facility" or "activity" means any underground injection well or any other facility or activity that is subject to regulation under the Underground Injection Control Program.

Section 2. Identification of Facilities and Cost Estimates. This Agreement pertains to the facilities and cost estimates identified in Schedule A (attached). (Schedule A lists, for each facility, the EPA identification number, name, address, and the current plugging and abandonment cost estimate, or portions thereof, for which financial assurance is demonstrated.)

Section 3. Establishment of Fund. The Grantor and the Trustee hereby establish a trust fund, the "Fund," for the benefit of EPA. The Grantor and the Trustee intend that no third party have access to the Fund except as herein provided. The Fund is established initially as consisting of the property, which is acceptable to the Trustee, described in Schedule B attached hereto. Such property and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the amount or adequacy of, nor any duty to collect from the Grantor, any payments necessary to discharge any liabilities of the Grantor established by EPA.

Section 4. Payment for Plugging and Abandonment. The Trustee shall make payments from the Fund as the EPA Regional Administrator shall direct, in writing, to provide for the payment of the costs of plugging and abandonment of the injection wells covered by this Agreement. The Trustee shall reimburse the Grantor or other persons as specified by the EPA Regional Administrator from the Fund for plugging and abandonment expenditures in such amounts as the EPA Regional Administrator shall direct in writing. In addition, the Trustee shall refund to the Grantor such amounts as the EPA Regional Administrator specifies in writing. Upon refund, such funds shall no longer constitute part of the Fund as defined herein.

Section 5. Payments Comprising the Fund. Payments made to the Trustee for the Fund shall consist of cash or securities acceptable to the Trustee.

Section 6. Trustee Management. The Trustee shall invest and reinvest the principal and income of the Fund and keep the Fund invested as a single fund, without distinction between principal and income, in accordance with general investment policies and guidelines which the Grantor may communicate in writing to the Trustee from time to time, subject, however, to the provisions of this Section. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge his duties with respect to the trust fund solely in the interest of the beneficiary and with the care, skill, prudence, and diligence under the circumstances then prevailing, which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims, except that:

(a) Securities or other obligations of the Grantor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 USC 80a-2.(a), shall not be acquired or held, unless they are securities or other obligations of the Federal or a State government;

(b) The Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the Federal or State government; and

(c) The Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for the payment of interest thereon.

Section 7. Commingling and Investment. The Trustee is expressly authorized in its discretion:

(a) To transfer from time to time any or all of the assets of the Fund to any common, commingled, or collective trust fund created by the Trustee in which the Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and

(b) To purchase shares in any investment company registered under the Investment Company Act of 1940, 15 U.S.C. 80a-1 et seq., including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 8. Express Powers of Trustee. Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered:

(a) To sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition;

(b) To make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted;

(c) To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of any securities issued by the United States Government, or any agency or instrumentality thereof, with a Federal Reserve bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund;

(d) To deposit any cash in the Fund in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the Federal or State government; and

(e) To compromise or otherwise adjust all claims in favor of or against the Fund.

Section 9. Taxes and Expenses. All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the Trustee to the extent not paid directly by the Grantor, and all other proper charges and disbursements of the Trustee, shall be paid from the Fund.

Section 10. Annual Valuation. Commencing after initial funding of the trust, the Trustee shall annually, at least 30 days prior to the anniversary date of establishment of the Fund, furnish to the Grantor and to the appropriate EPA Regional Administrator a statement confirming the value of the Trust. Any securities in the Fund shall be valued at the market value as of no more than 60 days prior to the anniversary date of establishment of the Fund. The failure of the Grantor to object in writing to the Trustee within 90 days after the statement has been furnished to the Grantor and the EPA Regional Administrator shall constitute a conclusively binding assent by the Grantor, barring the Grantor from asserting any claim or liability against the Trustee with respect to matters disclosed in the statement.

Section 11. Advice of Counsel. The Trustee may from time to time consult with counsel, who may be counsel to the Grantor, with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 12. Trustee Compensation. The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 13. Successor Trustee. The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee and this successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the successor trustee the funds and properties then constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, the EPA Regional Administrator, and the present Trustee by certified mail 10 days before such change becomes effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this Section shall be paid as provided in Section 9.

Section 14. Instructions to the Trustee. All orders, requests, and instruction by the Grantor to the Trustee shall be in writing, signed by such persons as are designated in the attached Exhibit A, or such other designees as the Grantor may designate by amendment to Exhibit A. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests, and instructions. All orders, requests, and instructions by the EPA Regional Administrator to the Trustee shall be in writing, signed by the EPA Regional Administrators

of the Regions in which the facilities are located, or their designees, and the Trustee shall act and shall be fully protected in acting in accordance with such orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the Grantor or EPA hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests, and instructions from the Grantor and/or EPA, except as provided for herein.

Section 15. Amendment of Agreement. This Agreement may be amended by an instrument in writing executed by the Grantor, the Trustee, and the appropriate EPA Regional Administrator, or by the Trustee and the appropriate EPA Regional Administrator if the Grantor ceases to exist.

Section 16. Irrevocability and Termination. Subject to the right of the parties to amend this Agreement as provided in Section 16, this Trust shall be irrevocable and shall continue until terminated at the written agreement of the Grantor, the Trustee, and the EPA Regional Administrator, or by the Trustee and the EPA Regional Administrator if the Grantor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be delivered to the Grantor.

Section 17. Immunity and Indemnification. The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Trust, or in carrying out any directions by the Grantor or the EPA Regional Administrator issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or by the Trust Fund, or both, from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Grantor fails to provide such defense.

Section 18. Choice of Law. This Agreement shall be administered, construed, and enforced according to the laws of the State of _____.

Section 19. Interpretation. As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each Section of this Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

IN WITNESS WHEREOF, the parties below have caused this Agreement to be executed by their respective officers duly authorized and the corporate seals to be hereunto affixed and attested as of the date first above written.

LOMAX EXPLORATION COMPANY

By:

Brian J. Pennington

(Signature of Grantor)

PRESIDENT

(Title)

Attest:

Michael E. Brennan

Land Manager

(Title)

(SEAL)

By:

A. Lenore Martinez

(Signature of Trustee)

Vice President

(Title)

Attest:

Kenneth J. [Signature]

Vice President

(Title)

(SEAL)

CERTIFICATE OF ACKNOWLEDGMENT
FOR
STANDBY TRUST FUND AGREEMENT

STATE OF TEXAS
COUNTY OF HARRIS

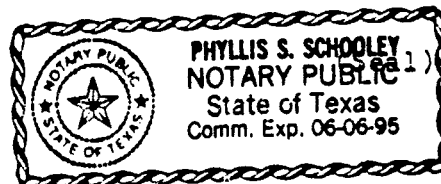
On this 7th day of April, 1993, before me personally
came Bill I. Pennington to me known, who,
(owner or operator)

being by me duly sworn, did depose and say that she/he resides at
13405 Northwest Freeway, Suite 314, Houston, Texas 77040,
(address)

that she/he is President of Lomax Exploration
(title)
Corporation, the corporation
(corporation)

described in and which executed the above instrument; that she/he knows
the seal of said corporation; that the seal affixed to such instrument
is such corporate seal; that it was so affixed by order of the Board of
Directors of said corporation, and that she/he signed her/his name
thereto by like order.

Phyllis S. Schooley
(Notary Public)



STANDBY TRUST AGREEMENT

SCHEDULE A
APRIL 12, 1993

EPA Identification Number:

Applied for by Lomax Exploration
Company

Name of Facility:

Boundary Federal No. 13-21 Well

Address:

Section 21 SW/SW, Township 8
South, Range 17 East, SLM,
Duchesne County Utah

Current Plugging and
abandonment costs estimate:

\$11,500.00

Financial Assurance:

April 12, 1993 Surety
Performance Bond of \$11,500.00
from Underwriters Indemnity
Company

STANDBY TRUST AGREEMENT

**SCHEDULE B
APRIL 12, 1993**

The property established is a Surety Performance Bond of \$11,500.00 from Underwriters Indemnity Company dated April 12, 1993 as applied for by Lomax Exploration Company for the benefit of the U.S. Environmental Protection Agency, Region Eight, Underground Injection Control Program (8WM-DW), 999 18th Street, Suite 500, Denver, Colorado 80202-2405.

RECEIVED

MAY 03 1993

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR Lomax Exploration Company
ADDRESS P.O. Box 1446
Roosevelt, UT 84066

DIVISION OF
OIL GAS & MINING

Well name and number: Boundary Federal #13-21

Field or Unit name: Undesignated Lease no. U-50376

Well location: QQ SW/SW section 21 township 8S range 17E county Duchesne

Is this application for expansion of an existing project? . . . Yes ☐ No ☒

Will the proposed well be used for: Enhanced Recovery? . . . Yes ☒ No ☐
Disposal? Yes ☐ No ☒
Storage? Yes ☐ No ☒

Is this application for a new well to be drilled? Yes ☐ No ☒

If this application is for an existing well,
has a casing test been performed on the well? Yes ☐ No ☒

Date of test: _____
API number: 43-013-30665

Proposed injection interval: from 5232' to 5274'

Proposed maximum injection: rate 1200 BWPD pressure 2000 psig

Proposed injection zone contains ☒ oil, ☐ gas, and/or ☐ fresh water within $\frac{1}{2}$ mile of the well.

IMPORTANT: Additional information as required by R615-5-2 should accompany this form.

List of Attachments: Exhibit A, EPA Application

I certify that this report is true and complete to the best of my knowledge.

Name Brad Mecham
Title Regional Production Manager
Phone No. (801) 722-5103

Signature Brad Mecham
Date 4/28/93

(State use only)
Application approved by _____ Title _____
Approval Date _____

Comments:

LOMAX



EXHIBIT A

METRIC SE QUADRANGLE
UTAH-DUCHESNE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

LEGEND

PROPOSED INJECTOR

OIL WELL

DRY HOLE

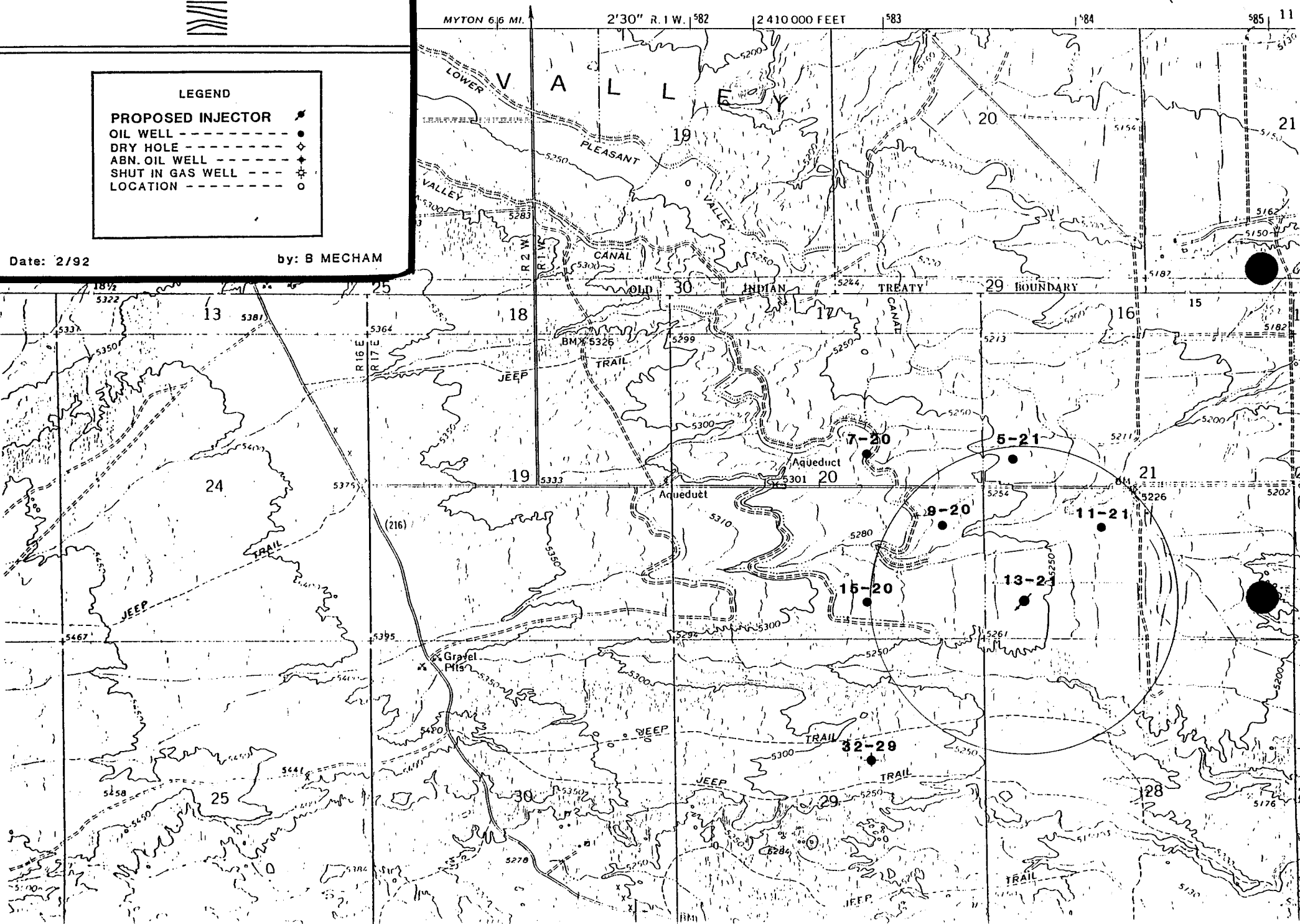
ABN. OIL WELL

SHUT IN GAS WELL

LOCATION

Date: 2/92

by: B MECHAM



KNOW ALL PERSONS BY THESE PRESENTS, That we, the Principal and Surety(ies) hereto are firmly bound to the U.S. Environmental Protection Agency (hereinafter called EPA), in the above penal sum for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally; provided that, where the Surety(ies) are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be the full amount of the penal sum.

WHEREAS said Principal is required, under the Underground Injection Control Regulations, as amended, to have a permit or comply with provisions to operate under rule for each injection well identified above, and

WHEREAS said Principal is required to provide financial assurance for plugging and abandonment as a condition of the permit or approval to operate under rule, and

WHEREAS said Principal shall establish a standby trust fund as is required when a surety bond is used to provide such financial assurance;

NOW, THEREFORE, the conditions of this obligation are such that if the Principal shall faithfully perform plugging and abandonment, whenever required to do so, of each injection well for which this bond guarantees plugging and abandonment, in accordance with the plugging and abandonment plan and other requirements of the permit or provisions for operating under rule and other requirements of the permit or provisions for operating under rule as may be amended, pursuant to all applicable laws, statutes, rules and regulations, as such laws, statutes, rules, and regulations may be amended,

Or, if the Principal shall provide alternate financial assurance as specified in Subpart F of 40 CFR 144, and obtain the EPA Regional Administrator's written approval of such assurance, within 90 days after the date of notice of cancellation is received by both the Principal and the EPA Regional Administrator(s) from the Surety(ies), then this obligation shall be null and void. Otherwise it is to remain in full force and effect.

The Surety(ies) shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above.

Upon notification by an EPA Regional Administrator that the Principal has been found in violation of the plugging and abandonment requirements of 40 CFR 144, for an injection well which this bond guarantees performances of plugging and abandonment, the Surety(ies) shall either perform plugging and abandonment in accordance with the plugging and abandonment plan and other permit requirements or provisions for

operating under rule and other requirements or place the amount for plugging and abandonment into a standby trust fund as directed by the EPA Regional Administrator.

Upon notification by an EPA Regional Administrator that the Principal has failed to provide alternate financial assurance as specified in Subpart F of 40 CFR 144, and obtain written approval of such assurance from the EPA Regional Administrator(s) during the 90 days following receipt by both the Principal and the EPA Regional Administrator(s) of a notice of cancellation of the bond, the Surety(ies) shall place funds in the amount guaranteed for the injection well(s) into the standby trust fund as directed by the EPA Regional Administrator.

The Surety(ies) hereby waive(s) notification of amendments to plugging and abandonment plans, permits, applicable laws, statutes, rules, and regulations and agrees that no such amendment shall in any way alleviate its (their) obligation on this bond.

The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of said penal sum.

The Surety(ies) may cancel the bond by sending notice by certified mail to the owner or operator and to the EPA Regional Administrator(s) for the Region(s) in which the injection well(s) is (are) located, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by both the Principal and the EPA Regional Administrator(s), as evidenced by the return receipts.

The Principal may terminate this bond by sending written notice to the Surety(ies); provided, however, that no such notice shall become effective until the Surety(ies) receive(s) written authorization for termination of the bond by the EPA Regional Administrator(s) of the EPA Region(s) in which the bonded injection well(s) is (are) located.

(The following paragraph is an optional rider that may be included but is not required.)

Principal and Surety(ies) hereby agree to adjust the penal sum of the bond yearly so that it guarantees a new plugging and abandonment amount, provided that the penal sum does not increase by more than 20% in any one year, and no decrease in the penal sum takes place without the written permission of the EPA Regional Administrator(s).

In WITNESS WHEREOF, The Principal and Surety(ies) have executed this Performance Bond and have affixed their seals on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies) and that the wording on this surety bond is identical to the wording specified in 40 CFR 144.70(c) as such regulation was constituted on the date this bond was executed.

PRINCIPAL:

Lomax Exploration Company
 (Name)
13405 Northwest Freeway, #314
Houston, Texas 77040
 (Address)

By: *Brian S. Pennington*
 (Signature(s))

 (Name(s))

 (Title(s))

Corporate Seal

CORPORATE SURETY(IES):

Planet Indemnity Company
 (Name)
410 17th St., Suite 1675
Denver, CO 80202
 (Address)

By: *Roy C. Die*
 (Signature(s))

Roy C. Die
 (Name(s))

Attorney-in-Fact
 (Title(s))

Corporate Seal

Texas
State of Incorporation

\$ 1,150.00
 Bond Premium

Colorado
State of Incorporation

\$ 11,500.00
 Liability Limit

(For every co-surety, provide signature(s), corporate seal, and other information in the same manner as for Surety above.)

GENERAL POWER OF ATTORNEY

CERTIFIED COPY

KNOW ALL MEN BY THESE PRESENTS: That **PLANET INDEMNITY COMPANY**, a corporation organized and existing under the laws of the State of Colorado, and having its principal office in the City of Denver, Colorado does hereby constitute and appoint:

ROY C. DIE

its true and lawful attorney-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, in an amount not to exceed:

*******FIFTY THOUSAND AND NO/100 DOLLARS*******
and the execution of all such instrument(s) in pursuance of these presents, shall be binding upon said **PLANET INDEMNITY COMPANY** as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by its regularly elected officers at its principal office.

This Power of Attorney is executed, and may be certified to and may be revoked, pursuant to and by authority of Article V, Section 6(C) of the By-Laws adopted by the Board of Directors of **PLANET INDEMNITY COMPANY**, at a meeting called and held on this third day of March, 1987, of which the following is a true transcript of said Section 6(C):

- "The President or any Vice President, Assistant Vice President, Secretary or Resident Secretary shall have power and authority
- (1) To appoint Attorneys-in-fact, and to authorize them to execute on behalf of the Company, and attach the Seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof, and
 - (2) to appoint special Attorneys-in-fact, who are hereby authorized to certify to copies of any power-of-attorney issued in pursuance of this section and/or any of the By-laws of the Company, and
 - (3) to remove, at any time, any such Attorney-in-fact or Special Attorney-in-fact and revoke the authority given to him."

Further, this Power of Attorney is signed and sealed by facsimile pursuant to resolution of the Board of Directors of said Company adopted at a meeting duly called and held on the third day of March, 1987, of which the following is a true excerpt:

"Now therefore the signatures of such officers and the seal of the Company may be affixed to any such power of attorney or any certificate relating thereto by facsimile, and any such power of attorney or certificate bearing such facsimile signatures or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by facsimile signatures and facsimile seal shall be valid and binding upon the Company in the future with respect to any bond or undertaking to which it is attached."

IN TESTIMONY WHEREOF, **PLANET INDEMNITY COMPANY** has caused this instrument to be signed and its corporate seal to be affixed by its authorized officer, E. H. Frank, III, on this the twenty eighth day of August, 1991.



E.H. Frank III
E.H. Frank, III

President

STATE OF COLORADO
COUNTY OF DENVER

On this 28th Day of August, 1991, before me came the individual who executed the preceding instrument, to me personally known, and, being duly sworn, said that he is the therein described and authorized officer of **PLANET INDEMNITY COMPANY**; that the seal affixed to said instrument is the Corporate Seal of said Company; that the said Corporate Seal and his signature were duly affixed by order of the Board of Directors of said Company.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Official Seal, at the city of Denver, Colorado, the day and year first above written.



Nancy J. Brenholz

Notary Public, Denver County, Colorado

CERTIFICATION

I, the undersigned officer of **PLANET INDEMNITY COMPANY**, do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Section of the By-Laws of said Company as set forth in said Power of Attorney, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 12th day of April, 19 93



Pat Doehring
Pat Doehring

Assistant Secretary

Only a certified copy of Power of Attorney bearing the Certificate of Authority No. printed in red on the upper right corner is binding. Photocopies, carbon copies or other reproductions of this document are invalid and not binding upon the Company.

ANY INSTRUMENT ISSUED IN EXCESS OF THE PENALTY AMOUNT STATED ABOVE IS TOTALLY VOID AND WITHOUT VALIDITY.

ATTACHMENTS TO FORM 4

ATTACHMENTS REQUIRED TO BE SUBMITTED WITH PERMIT APPLICATION FOR CLASS II WELLS:

- A. **AREA OF REVIEW METHODS** - Give the methods and, if appropriate, the calculations used to determine the size of the area of review (fixed radius or equation).

Answer:

The area of review shall be a fixed radius of 1/4 mile from the Boundary Unit Boundary.

See Exhibit A for letter of intent.

- B. **MAPS OF WELLS/AREA AND AREA OF REVIEW** - Submit a topographic map, extending one mile beyond the property boundaries, showing the injection well or project area for which a permit is sought and the applicable area of review.

Answer:

See Exhibit B - Area of review; Exhibit B-2 - Location of Johnson Waterline

There are no hazardous waste, treatment, storage or disposal facilities within a one mile radius of the property boundaries.

- C. **CORRECTIVE ACTION PLAN AND WELL DATA** - Submit a tabulation of data reasonably available from public records or otherwise known to the applicant on all wells within the area of review, including those on the map required in B, which penetrate the proposed injection zone.

Class I - A description of each well's type, construction, date drilled, location, depth, record of plugging and/or completion.

Answer:

See Exhibits C & C-1 through C-11

Class II - In addition to requirements for Class I, in the case of Class II wells operating over the fracture pressure of the injection information, all known wells within the area of review which penetrate formations affected by the increase in pressure.

Answer:

Step-rate tests will be performed periodically to determine the fracture pressure. The injection pressure will be kept under frac pressure.

- E. **NAME AND DEPTH OF USDWs (CLASS II)** - For Class II wells, submit geologic name, and depth to bottom of all underground sources of drinking water which may be affected by the injection.

Answer:

Due to the location and depth of this well, it will not affect any source of drinking water.

Attached is Exhibit E showing an analysis of the water at the injection depth.

- G. GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES (CLASS II)** - For Class II wells, submit appropriate geological data on the injection zone and confining zones.

Answer:

The injection zone is the Douglas Creek Member of the Green River Formation. The Douglas Creek is composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shales. At the 13-21 Boundary location, the injection zone is 22' thick with the top @ 5231'. The porous and permeable lenticular sandstones vary in thickness from 0' to 31' and are confined to the Boundary Field by low porosity calcareous shales and carbonates. Outside the field the sandstones are composed of tight, very fine, silty, calcareous sandstones less than 3' thick.

The confining stratum directly above and below the injection zone is the Douglas Creek member of the Green River formation, with its top at 5160' in the 13-21 well. The strata confining the injection zone is composed of tight, moderately calcareous sandy lucustrine shales. All of the confining strata is impermeable and it will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

The fracture pressure of the 13-21 is estimated to be 1868#. This was obtained by using the frac gradients from two adjacent wells in the Boundary field (see attached exhibits G-1 & G-2) and using the average frac gradient of .79 as follows: $.79 - .433 = .357 \times 5232 = 1868\#$. The injection pressure on the 13-21 will not exceed frac pressure. A step-rate test will be conducted upon injection and periodically there after to determine actual fracture pressure. As frac pressure increases we may elect to increase injection pressure but will not exceed the maximum pressure of 2000#.

Formation tops - see Exhibit G

Frac Gradients - see Exhibits G-1 & G-2

- H. OPERATING DATA** - Submit the following proposed operating data for each well (including all those to be covered by area permits): (1) average and maximum daily rate and volume of the fluids to be injected; (2) average and maximum injection pressure; (3) nature of annulus fluid; (5) for Class II wells, source and analysis of the physical and chemical characteristics of the injection fluid.

Answer:

- 1) Average - 600 BPD; Maximum - 1200 BPD
- 2) Surface Pressure: Average - 1600#; Maximum - 2000#
- 3) Fresh water treated w/scale inhibitor, oxygen scavenger, biocide (behind PKR fluid).
- 5) Culinary water supplied by Johnson Water District (see Exhibit H for water analysis & Exhibit B-2 for location of the Johnson Waterline).

- M. CONSTRUCTION DETAILS** - Submit schematic or other appropriate drawings of the surface and subsurface construction details of the well.

Answer:

See Exhibits M-1, M-2, C, & C-1 through C-6.

- Q. PLUGGING AND ABANDONMENT PLAN** - Submit a plan for plugging and abandonment of the well.

Answer: See plug & abandonment plan - Exhibit Q-1, Q-2, Q-3.

- R. NECESSARY RESOURCES** - Submit evidence such as a surety bond or financial statement to verify that the resources to close, plug or abandon the well are available.

Answer:

See Exhibit R.

MISCELLANEOUS - Enclosed are copies of the following logs:

Litho-Density Compensated Neutron Log
Cement Bond Log
Dual Laterolog Micro-SFL Log
Electronic Propagation Log

Lomax Exploration Company

P.O. Box 1446
Roosevelt, Utah 84066
(801) 722-5103
FAX (801) 722-9149



May 27, 1993

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Dan Jarvis

Injection Well Application
Boundary Federal #13-21
SW/SW Sec 21, T8S, R17E
Duchesne County, Utah

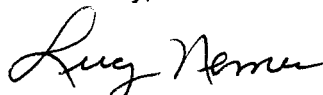
43-013-30665

Dear Dan,

Enclosed is the affidavit certifying that we sent the letter of intent to all the surface owners within a one-half mile radius of the proposed injection well, referenced above.

If you have any questions or require additional information, please contact me or Brad Mecham at 722-5103.

Sincerely,



Lucy Nemec
Engineering Secretary

\n
EPA\1321STAP.LTR

Enclosure

RECEIVED

JUN 01 1993

DIVISION OF
OIL, GAS & MINING

May 26, 1992

RE: Application for Approval of Class II Injection Well
Boundary Federal #13-21

I certify that a copy of the letter of intent has been provided to all surface owners within a one-half mile radius of the proposed injection well. See Exhibit A.

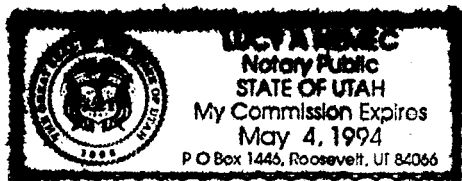
Brad Mecham

LOMAX EXPLORATION COMPANY
by Brad Mecham, Regional Production Manager

Sworn to and subscribed before me the
27th day of May 1993.

Lucy A. Nemec

Notary Public in and for the State of Utah
Printed name: Lucy Nemec
My Commission Expires: 5/4/94



Lomax Exploration Company

P.O. Box 1446
Roosevelt, Utah 84066
(801) 722-5103
FAX (801) 722-9149

EXHIBIT A



April 27, 1993

OWNER OR OPERATOR:

RE: Water Injection Application
Proposed Boundary Unit
Duchesne County, Utah

This is to inform you that Lomax Exploration Company located at P.O. Box 1446, Roosevelt, Utah is submitting an application to the EPA for area approval of the Boundary Unit described below. Also included in this application is a request for approval to convert the Federal #13-21 well, located in the SW/SW of Section 21, to a Class II water injection well for the purpose of enhanced oil recovery.

BOUNDARY UNIT

All, Section 17, T8S, R17E
E2, Section 18 & 19, T8S, R17E
All, Section 20, T8S, R17E
NW4, S2, Section 21, T8S, R17E

The water that will be used for injection is culinary water from the Johnson Water District. The proposed maximum injection rate will be 1200 BWPD at a maximum surface pressure of 2000#. The injection zone targeted for secondary recovery in the Federal #13-21 well is the D1 sand interval from 5232'-40' and the D2 sand interval from 5257'-60', 5264'-74'.

After reviewing the application, the EPA will publish a public notice at which time a draft permit will be issued. Surface owners will be sent a copy of the notice and have an opportunity to respond if they desire. Comments may be directed to Ms. Daniela Thigpen of the EPA at the following address:

UIC Implementation Section
Drinking Water Branch (8WM-DW)
Attention: Ms. Daniela Thigpen
999 18th Street, Suite 500
Denver, CO 80202-2405
Telephone: (303) 293-1413

If you have any questions, please contact me or Lucy Nemec at 801-722-5103.

Sincerely,



Brad Mecham
Regional Production Manager

EXHIBIT A

NOTICE OF INTENT TO SUBMIT AN APPLICATION FOR APPROVAL FOR THE BOUNDARY UNIT AREA
HAVE BEEN SENT TO THE FOLLOWING OWNERS & OPERATORS.

OWNERS/WORKING INTERESTS

Walker Energy
260 North Belt
Houston, Tx. 77060

John D. Chasel
2285 Lucky John Drive
Park City, Ut. 84060

Phoenix Hydrocarbons, Inc.
P.O. Box 2802
Midland, Tx. 79702

Mega Petroleum Inc.
1115 Grant Street
Denver, Co. 80203

Lomax Exploration Company
13450 NW Freeway #314
Houston, Tx. 77040

Green River Oil and Gas, Inc.
13450 NW Freeway, #314
Houston, Tx. 77040

Lomax Family Trust
791 Nyes Place
Laguna Beach, CA. 92651

Dorothy M. Lomax
791 Nyes Place
Laguna Beach, CA. 92651

Yates Petroleum Corp.
105 South 4th Street
Artesia, NM 88210

Andover Partners
1001 Fannin #2000
Houston, Tx. 77002

Lancaster Corporation
P.O. Box 8439
Denver, Co. 80201

E.P. Operating Co
Box 2649
Dallas, TX 75221

Greenwood Holdings Inc.
5600 So Quebec St #150C
Englewood, Co. 80111

MTS Limited Partnership
c/o Mesa Petroleum Co.
One Mesa Square
Amarillo, TX 79189

23rd St Investment Co.
820 23rd Street
Ogden, Utah 84401

Carman Family Investment
Box 224
Duchesne, UT 84021

Lela Hall
Edward Carter
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Croff Oil Company
1675 Larimer St., #810
Denver, Co. 80202

Covey Minerals Inc.
3000 Conner St., #13
Salt Lake City, UT 84109

Elizabeth Bartlett Hall
Carleson Gillard
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Bruce & Laurel Hall
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Edwin C. Hall
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Glade & Ruby Hall
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Jay M. & Beths Hall
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Jean Hall
c/o Jay M. Hall
150 E. 500 So.
Payson, UT 84651

Flying J Exploration
& Production Co.
P.O. Box 540180
No. Salt Lake, UT 84054

Hancock Enterprises
692 E. 3rd No.
Roosevelt, UT 84066

William D. Hancock
Elizabeth Hancock
Box 190
Roosevelt, UT 84066

Woodro Grand Hansen
Rita S. Hansen
Altamont, UT 84001

Donald & Cheryl Hatch
Box 1565
Roosevelt, UT 84066

Clarence A. Hawk
c/o John C. Zerr Jr.
Coldrun Road
Geigertown, PA 19523

Earl M. Henderson
40 South 900 East
Salt Lake City, UT 84105

T.E. Jeremy Trust
c/o First Interstate Bnk
180 South Main
Salt Lake City, UT 84111

Pearl L. Keilman
c/o John C. Zerr Jr.
Coldrun Road
Geigertown, PA 19523

Brigham Krause Estate
79 So. Main
Salt Lake City, UT 84111

Rex & LaRue Lamb
Box 374
Myton, UT 84052

Nolan & Vickie Larsen
Box 25
Myton, UT 84052

David & Ruth Losee
P.O. Box 9
Lava Hot Springs, ID 83221

Gayla Losee Comby
c/o Glenn H. Losee
12115 S. 2240 W.
Riverton, Ut. 84065

Glenn Losee
12115 S. 2240 W.
Riverton, Ut. 84065

Leonard P. Losee
2539 W. Buena Vista Dr.
West Jordan, Ut 84088

Mark A. Losee
7696 S. 2250 W.
West Jordan, UT 84084

Mary Losee Rowndy
3221 Royalwood R.
Taylorsville, UT 84118

Steven D. Losee
c/o Mark A. Losee
7696 S. 2250 West
West Jordan, UT 84118

Steven A. Malnar
Bonnie L. Malnar
600 N Gats Dr (60-6)
Roosevelt, UT 84066

Mary Hall McBride
c/o Mark A. Losee
7696 S. 2250 W.
West Jordan, Ut. 84118

Evylen McNauthtan
377 N. Vernal Ave.
Vernal, Utah 84078

Elva Stewart
4744 S. Rainbow Dr.
Murray, UT 84107

Golda M. Carroll
3022 West 500 So.
Vernal, UT 84078

George O. Massey
739 North Main Street
Springville, UT

Ira D. Massey
5140 South 9500 East
Jensen, UT 84035

Arthella Pierson
8962 Hunt Avenue
South Gate, Ca. 90280

Farrell A. Massey
326 West 1700 South
Orem, UT 84057

Floyd L. Massey
6975 East 6720 South
Jensen, UT 84035

Julian A. Massey, Jr.
1749 North 1500 West
Vernal, UT 84078

Valda D. Massey
102 South 2500 West
Vernal, UT 84078

Illela McKinlay
Box 39
Teton City, ID 83451

Claire & Ernest Miller
833 Emerson St.
Philadelphia, PA 19111

Moon Land & Livestock
Orven & Delphia Moon
Box 173
Neola, UT 84053

Audrey M. Prewitt
2006 Hanner Ave.
Norco, UT 84053

Howard D. Roberts Estate
Virginia P. Roberts
56 Garden Place
Salt Lake City, UT 85103

Hazel Robertson
875 S. Donner Way
Murray, UT 84108

Marvin & Janet Ross
3009 Comanche Lane
Provo, UT 84604

Sam Oil, Inc.
Box 1030
Roosevelt, UT 84066

Shell Oil Company
P.O. Box 576
Houston, TX 77001-0576

Alice Todd
Myton, UT 84052

Wintah & Ouray Indians
Bureau of Indian Affairs
P.O. Box 130
Ft. Duchesne, UT 84026

Van Tassell Land & Livestock
Wm. & Daphne Van Tassell
1676 Hickory Lane
Provo, UT 84026

DeAnn Losee Wach
c/o Mark A. Losee
7696 S 2250 W.
West Jordan, UT 84084

Hal & Barbara Wilcken
5493 S. 640 W.
Murray, Ut 84123

Joseph Eugene Wilcken
Verda Wilcken
Myton, UT 84052

Leslie & Dena Wilcken
Rt 2 Box 11
Roosevelt, UT 84066

Leonard T. Wilcken
Box 1979
Roosevelt, UT 84066

Rosco & Vida Wilcken
Box 268
Duchesne, UT 84021

Emerson C. Willey
Boston Building
Salt Lake City, UT 84111

LuDeen Hall Winegar
Salt Lake City, UT

Kenneth J. Young
General Delivery
Neola, UT 84053

William H. Schroeder
5611 Tatteridge Dr.
Houston, Tx. 77069

SURFACE OWNERS

AA & M L.C.
2533 E. 6200 South
Salt Lake City, UT. 84121

Wayne & Richard Batty
716 S. 1500 W.
Vernal, UT 84078

Gilbert G. Beisel
Marjorie Beisel
4 Chandler
Rockledge, PA 19111

Carman Family Invest Co.
c/o Mildred Carman
Duchesne, UT 84021

Anita Luke Deppen
16 N. Diamond St.
Shamokin, PA 17872

Clarence A. Hawk
c/o John C. Zerr Jr.
Coldrun Road
Geigertown, PA 19523

Wayne & Moreen Henderson
Rt 3 Box 3671
Myton, UT 84052

Ruth Elizabeth Luke Henninger
Box 112
Shamokin, PA 17872

Dorothy M. Hudson
c/o Chapin & Armstrong
1201 NE 8th Street
Delroy Beach, FL 33483

Clarence J. King
c/o John C. Zerr Jr.
Coldrun Road
Geigertown, PA 19523

Ann W. Kuech, a widow
11828 Colman RD
Philadelphia, PA 19154

Nolan & Vickie Larsen
Box 25
Myton, UT 84052

Mt. Olympus Realty
Box 1067
Sandy, UT 84091

Nielson Farms
Box 638
Roosevelt, UT 84066

Brad & JoAnn H. Nelson
Box 638
Roosevelt, UT 84066

Ethan & Louise M. Nelson
Box 638
Roosevelt, UT 84066

Leslie & Alma Nelson
135 Oxford Place
Williamstown, N.J. 08094

Pride Lane Farms
Box 26
Heber, UT 84032

Ken & Katherine Prothero
10711 S. Whirlaway Ln
Sandy, UT 84092

L. Clark Roberts
Barbara Roberts
Box 156
Myton, UT 84052

Louis & Louise Roberts
Vernal, UT 84078

Loryn S. & Barbara H. Ross
RT 3635
Myton, UT 84052

Wayne L. & Jolynn B. Ross
2457 No. 1200 E.
Provo, UT 84604

Eleanor R. Schmidt
c/o John C. Zerr, Jr.
Coldrud Road
Geigertown, PA 19523

Sevilla E. Shomgard
1232 E. Center St.
Mahanoy City, PA 17948

Gertrude & Margaret Snyder
516 Pine St.
Tamaqua, PA 18252

State of Utah
State Lands and Forestry
111 Triad Center, #400
SLC, UT 84180-1203

United States of America
Bureau of Land Management
324 So State, #301
Salt Lake City, UT 84111

Hal Wilcken
Barbara D. Wilcken
5493 So. 640 West
Murray, UT 84123

Joseph Eugene Wilcken
Verda Wilcken
Myton, UT 84052

Larry T. Wilcken
Jean H. Wilcken
7024 N. Dry Fork
Vernal, UT 84078

John C. Zerr, Jr.
Coldrud Road
Geigertown, PA 19523

Paul Allen Zerr
Coldrud Road
Geigertown, PA 19523

Gil FFF
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JUN 10 1993

DIVISION OF OIL, GAS & MINING

AFFIDAVIT OF PUBLICATION

PUBLISHED ON JUN 07 1993

SIGNATURE

06/07/93

DATE _____

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DIVISION OF OIL, GAS AND
MINING
/s/ R. J. Firth
Associate Director, Oil & Gas
63820230

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AFFIDAVIT OF PUBLICATION

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PUBLISHED ON JUN 12 1993

SIGNATURE

DATE 06/12/93

**AMENDED
NOTICE OF AGENCY ACTION
CAUSE NO. UIC-133
BEFORE THE DIVISION OF OIL,
GAS AND MINING
DEPARTMENT OF NATURAL
RESOURCES, STATE OF UTAH**

IN THE MATTER OF THE APPLICATION OF LOMAX EXPLORATION CO. FOR ADMINISTRATIVE APPROVAL OF THE BOUNDARY FEDERAL #13-21 WELL LOCATED IN SECTION 24, TOWNSHIP 8 SOUTH, RANGE 17, EAST, S.L.M., DUCHESNE COUNTY, UTAH, AS A CLASS II INJECTION WELL

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Lomax Exploration Company for administrative approval of the Boundary Federal 13-21 Well, located in Section 21, Township 8 South, Range 17 East, Duchesne County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The Green River formation will be selectively perforated for water injection from 5232 feet to 5274 feet. The average injection pressure is estimated to be 1400 psig and the estimated injection volume will be 1200 barrels of water per day.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days of the date of publication of the notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 27th day of May
1991

STATE OF UTAH
DIVISION OF OIL, GAS AND
MINING
s/ R. J. Firth
Associate Director, Oil & Gas
89520140

ACCOUNT NAME			TELEPHONE
GAS & MINING			801-538-5340
SCHEDULE			AD NUMBER
			69820110
NO.	CAPTION		MISC. CHARGES
	AMENDED NOTICE OF AGENCY ACTION CAUSE NO. UIC-1		.00
SIZE	TIMES	RATE	AD CHARGE
1 COLUMN	1	1.64	119.72
TOTAL ON RECEIPT OF THIS INVOICE		TOTAL AMOUNT DUE	
		119.72	

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BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE APPLICATION	:	<u>AMENDED</u>
OF LOMAX EXPLORATION CO. FOR	:	NOTICE OF AGENCY ACTION
ADMINISTRATIVE APPROVAL OF THE	:	
BOUNDARY FEDERAL #13-21 WELL	:	CAUSE NO. UIC-133
LOCATED IN SECTION 21, TOWNSHIP	:	
8 SOUTH, RANGE 17 EAST, S.L.M.,	:	
DUCHESNE COUNTY, UTAH, AS A	:	
CLASS II INJECTION WELL	:	

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

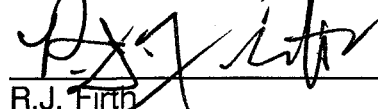
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Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days of the date of publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 27th day of May, 1993.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



R.J. Firth
Associate Director, Oil and Gas

WUI101

**Lomax Exploration Company
Boundary Federal #13-21 Well
Cause No. UIC-133**

Publication Notices were sent to the following:

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

Uintah Basin Standard
268 South 200 East
Roosevelt, Utah 84066

Bureau of Land Management
Vernal District Office
170 South 500 East
Vernal, Utah 84078

Lomax Exploration Company
P.O. Box 1446
Roosevelt, Utah 84066

U.S. Environmental Protection Agency
Region VIII
Attn. Dan Jackson
999 18th Street
Denver, Colorado 80202-2466



Lisa D. Clement
Administrative Secretary
June 1, 1993



Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 1, 1993

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

Gentlemen:

Re: Amended Notice of Agency Action - Cause No. UIC-133

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

Lisa D. Clement
Administrative Secretary

Enclosure
WOI168





Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
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June 1, 1993

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Sincerely,

A handwritten signature in cursive script that reads "Lisa D. Clement".

Lisa D. Clement
Administrative Secretary

Enclosure
WOI168



BEFORE THE DIVISION OF OIL, GAS AND MINING
DEPARTMENT OF NATURAL RESOURCES
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE APPLICATION
OF LOMAX EXPLORATION CO. FOR
ADMINISTRATIVE APPROVAL OF THE
BOUNDARY FEDERAL #13-21 WELL
LOCATED IN SECTION 21, TOWNSHIP
8 SOUTH, RANGE 17 EAST, S.L.M.,
DUCHESNE COUNTY, UTAH, AS A
CLASS II INJECTION WELL

NOTICE OF AGENCY ACTION

CAUSE NO. UIC-133

---ooOoo---

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Lomax Exploration Company for administrative approval of the Boundary Federal 7-32 Well, located in Section 21, Township 8 South, Range 17 East, Duchesne County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R.649-10, Administrative Procedures.

The interval from 5232 feet to 5274 feet (Green River formation) will be selectively perforated for water-flooding. The average injection pressure is estimated to be 1600 psig or less with a maximum requested injection pressure of 1868 psig. The estimated injection volume will be approximately 1200 barrels of water per day.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days of the date of publication of this notice. If such a protest or notice of intervention is received, a hearing will be scheduled before the Board of Oil, Gas and Mining. Protestants and/or intervenors should be prepared to demonstrate at the hearing how this matter affects their interests.

DATED this 27th day of May, 1993.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



R.J. Firth
Associate Director, Oil and Gas

WUI101

**Lomax Exploration Company
Federal #13-21 Well
Cause No. UIC-133**

Publication Notices were sent to the following:

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

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268 South 200 East
Roosevelt, Utah 84066

Bureau of Land Management
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170 South 500 East
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Lomax Exploration Company
P.O. Box 1446
Roosevelt, Utah 84066

U.S. Environmental Protection Agency
Region VIII
Attn. Dan Jackson
999 18th Street
Denver, Colorado 80202-2466



Lisa D. Clement
Administrative Secretary
June 1, 1993



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 1, 1993

Newspaper Agency Corporation
Legal Advertising
157 Regent Street
Salt Lake City, Utah 84110

Gentlemen:

Re: Notice of Agency Action - Cause No. UIC-133

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Sincerely,

A handwritten signature in cursive script that reads "Lisa D. Clement".

Lisa D. Clement
Administrative Secretary

Enclosure
WOI168





Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

June 1, 1993

Uintah Basin Standard
268 South 200 East
Roosevelt, Utah 84066

Gentlemen:

Re: Notice of Agency Action - Cause No. UIC-133

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, 355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Lisa D. Clement".

Lisa D. Clement
Administrative Secretary

Enclosure
WOI168



**DIVISION OF OIL, GAS AND MINING
UNDERGROUND INJECTION CONTROL PROGRAM**

**PERMIT
DECISION DOCUMENT**

Applicant: Lomax Exploration Co. **Well:** Injection Well 13-21

Location: Boundary Unit, Duchesne County

Ownership Issues: The proposed well is located in section 21, township 8 south, range 17 east, Duchesne, County, Utah. The surface and minerals within a 1/2 mile of the unit boundary is owned by the federal government, the State of Utah, and private land owners. Lomax has provided an affidavit stating that all interested parties have been notified of their intent to convert the well to injection.

Well Integrity: The well proposed for injection is the Federal 13-21. This well has a 8 5/8" surface casing set at 238 feet and is cemented to surface. A 5 1/2" longstring is set at 5572 feet and the top of cement is at 1650 feet from a cement bond log. The injection interval is 5232-5274 feet (Green River Formation). A 2 7/8" tubing will be set in a packer at 5130 feet. This construction should adequately protect all USDW's. There are 5 producing wells in the 1/2 mile area of review. All wells in the AOR have sufficient cement behind the longstring and have adequate surface casing to prevent any migration of fluid up the hole. A casing test should be performed at the time of conversion and a casing/tubing pressure test should be performed prior to injection. A maximum pressure of 2000 psig was requested, however fracture data from other wells in the area indicate that fracturing will occur at 1868 psig. Maximum authorized pressure will be limited to 1868 psig until Lomax can demonstrate through a step rate test that higher pressures will not initiate fractures of the overlying confining interval.

Ground Water Protection: The base of moderately saline water is at a depth of approximately 600 feet located in the Uinta Formation in the area of the project. Any shallow fresh water zones will be adequately protected by existing constructions of surrounding wells. No corrective action is needed.

Oil/Gas & Other Mineral Resources Protection: Lomax has proposed one injection well at the present time. Injection into this well should have no adverse affects on any offsetting production outside the unit area.

Bonding: All the wells in the section are operated by Lomax and are covered by a state wide bond.

Actions Taken and Further Approvals Needed: Board approval for the waterflood has been granted. Bureau of Land Management approval with respect to the unit boundaries

has been granted. A public notice for the 13-21 injection will be published in both the Salt Lake Tribune and the Uinta Basin Standard. Administrative approval can be granted for the injection well after a 15 day comment period if no objections are received.

DJJ
Reviewers

06-01-93
Date

5258
4600
658

INJECTION WELL APPLICATION

REVIEW SUMMARY

Applicant: LOMAX Exploration Well: 13-21

Location: section 21 township 8S range 17E

API #: 43-013-30665 Well Type: disp. enhanced recov. X

If enhanced recovery has project been approved by the Board? Yes

Lease Type: FEDERAL Surface Ownership: BLM

Field: Undesignated Unit: Boundary Indian Country: X

UIC Form 1: Yes Plat: Yes Wells in AOR: 4 POW

Logs Available: Yes Bond Log: Yes

Casing Program: 8 5/8" C 238' - 5 1/2" C 5750 and Top from Bond Log.
1650' V

Integrity Test: To Be run at conversion.

Injection Fluid: Fresh Water, Johnston Water Co.

Geologic Information: Adapted

Analyses of Injection Fluid: Yes Formation Fluid: Yes Compat.

Fracture Gradient Information: Yes .79 psig/ft Parting Pressure
1868 psig.

Affidavit of Notice to Owners: no (notified Lomax)

Fresh Water Aquifers in Area: Vinda sands

Depth Base of Moderately Saline Water: 658'

Confining Interval: shales siltstones

Reviewer: D. Jarvis Date:

Comments & Recommendation



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

August 4, 1993

Lomax Exploration Company
P.O. Box 1446
Roosevelt, Utah 84066

Gentlemen:

Re: Conversion of the Boundary Federal #13-21 Well Located in Section 21, Township 8 South, Range 17 East, Duchesne County, Utah, to a Class II Injection Well

In accordance with Utah Admin. R. 649-5-3-3, administrative approval for conversion of the referenced well to a Class II injection well is granted.

The following actions are necessary to fully comply with this approval:

1. Compliance with the Underground Injection Control requirements for operation, maintenance and reporting for Class II injection wells pursuant to Utah Admin. R. 649-1 et seq.
2. Conformance with all conditions of the submitted application.

If you have any questions regarding this approval or the necessary requirements, please contact this office.

Sincerely,

R.J. Firth

Associate Director, Oil and Gas

cc: Tom Pike, USEPA



AFFIDAVIT OF PUBLICATION

AMENDED NOTICE OF AGENCY ACTION

County of Duchesne,
STATE OF UTAH

CAUSE NO. UIC-133
IN THE MATTER OF
THE APPLICATION OF
LOMAX EXPLORA-
TION CO. FOR ADMIN-
ISTRATIVE AP-
PROVAL OF THE
BOUNDARY FED-
ERAL #13-21 WELL
LOCATED IN SECTION
21, TOWNSHIP 8
SOUTH, RANGE 17
EAST, S.L.M.,
DUCHESNE COUNTY,
UTAH, AS A CLASS II
INJECTION WELL

THE STATE OF
UTAH TO ALL PER-
SONS INTERESTED IN
THE ABOVE EN-
TITLED MATTER.

Notice is hereby given
that the Division is com-
mencing an informal ad-
judicative proceeding to
consider the application
of Lomax Exploration
Company for administra-
tive approval of the
Boundary Federal 13-21
Well, located in Section
21, Township 8 South,
Range 17 East, Duchesne
County, Utah, for con-
version to a Class II in-
jection well. The proceed-
ing will be conducted in
accordance with Utah
Admin. R.649-10, Ad-
ministrative Procedures.

The Green River for-
mation will be selectively
perforated for water in-
jection from 5232 feet to
5274 feet. The average
injection pressure is esti-
mated to be 1600 psig
and the estimated in-
jection volume will be 1200
barrels of water per day.

Any person desiring
to object to the applica-
tion or otherwise inter-
vene in the proceeding,
must file a written pro-
test or notice of interven-
tion with the Division
within fifteen days of the
date of publication of this
notice. If such a protest
or notice of intervention
is received, a hearing will

be scheduled before the
Board of Oil, Gas and
Mining. Protestants and/
or intervenors should be
prepared to demonstrate
at the hearing how this
matter affects their inter-
ests.

DATED this 27th day
of May, 1993

STATE OF UTAH
DIVISION OF OIL, GAS
AND MINING

R.J. Firth Associate
Director, Oil and Gas
Published in the Uintah
Basin Standard June 15,
1993

I, Craig L. Ashby on oath, say that I am the
PUBLISHER of the Uintah Basin Standard, a weekly
newspaper of general circulation, published at
Roosevelt, State and County aforesaid, and that a certain
notice, a true copy of which is hereto attached, was
published in the full issue of such newspaper
for 1 consecutive issues, and that the first
publication was on the 15 day of June,
1993, and that the last publication of such notice was
in the issue of such newspaper dated the 15 day
of June, 1993.

Subscribed and sworn to before me this

16 day of June, 1993

Jean Ercanbrack
Notary Public
JEAN ERCANBRACK
NOTARY PUBLIC - STATE OF UTAH
130 NORTH SKYLINE (55-5)
ROOSEVELT, UT 84066
COMM. EXP. 6-2-96

AFFIDAVIT OF PUBLICATION

County of Duchesne,

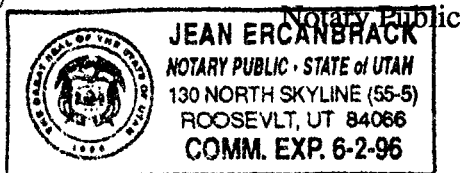
STATE OF UTAH

I, Craig L. Ashby on oath, say that I am the
PUBLISHER of the Uintah Basin Standard, a weekly
newspaper of general circulation, published at
Roosevelt, State and County aforesaid, and that a certain
notice, a true copy of which is hereto attached, was
published in the full issue of such newspaper
for 1 consecutive issues, and that the first
publication was on the 8 day of June,
1993, and that the last publication of such notice was
in the issue of such newspaper dated the 8 day
of June, 1993.

Subscribed and sworn to before me this

14 day of June, 1993

Jean Ercanbrack



NOTICE OF AGENCY ACTION

CAUSE NO. UIC-133
IN THE MATTER OF
THE APPLICATION OF
LOMAX EXPLORA-
TION CO. FOR ADMIN-
ISTRATIVE AP-
PROVAL OF THE
BOUNDARY FED-
ERAL #13-21 WELL
LOCATED IN SECTION
21, TOWNSHIP 8
SOUTH, RANGE 17
EAST, S.L.M.,
DUCHESNE COUNTY,
UTAH, AS A CLASS II
INJECTION WELL
THE STATE OF UTAH
TO ALL PERSONS IN-
TERESTED IN THE
ABOVE ENTITLED
MATTER.

Notice is hereby given
that the Division is com-
mencing an informal ad-
judicative proceeding to
consider the application
of Lomax Exploration
Company for administra-
tive approval of the
Boundary Federal 7-32
Well, located in Section
21, Township 8 South,
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or notice of intervention
is received, a hearing will
be scheduled before the
Board of Oil, Gas and
Mining. Protestants and/
or intervenors should be
prepared to demonstrate
at the hearing how this
matter affects their inter-
ests.

DATED this 27th day of
May, 1993

STATE OF UTAH
DIVISION OF OIL, GAS
AND MINING R.J.
FIRTH Associate Direc-
tor, Oil and Gas
Published in the Uintah
Basin Standard June 8,
1993

COPY

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
355 West North Temple, 3 Triad, Suite 350, Salt Lake City, UT 84180-1203

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

KEBBIE JONES
LOMAX EXPLORATION COMPANY
PO BOX 1446
ROOSEVELT UT 84066

UTAH ACCOUNT NUMBER: N0580

REPORT PERIOD (MONTH/YEAR): 6 / 95

AMENDED REPORT ☐ (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
CASTLE PK FED 12-24								
4301330588	02650	09S 16E 24	GRRV			U15855		
FEDERAL 9-23								
4301330654	02655	09S 16E 23	GRRV			"		
FEDERAL 13-21								
4301330665	02660	08S 17E 21	GRRV			U50376		
FEDERAL #1-1								
4301330571	02685	09S 16E 1	GRRV			U40652	UTU 72104	Lease Segregated
BOUNDARY FEDERAL 7-20								
4301330750	08407	08S 17E 20	GRRV			U50376		
BOUNDARY FEDERAL 9-20								
4301330690	08408	08S 17E 20	GRRV			"		
UNDARY FEDERAL 15-20								
4301330667	08409	08S 17E 20	GRRV			"		
CASTLE PEAK FED 6-23								
4301330873	09700	09S 16E 23	GRRV			U15855		
WELLS DRAW STATE 7-36								
4301330934	09730	08S 15E 36	GRRV			ML 21835		
PLEASANT VALLEY #1								
4301330394	10520	08S 16E 21	GRRV			U071572A	SL-071572A	
JENSEN #1								
4301316208	10521	08S 16E 21	GRRV			SL071572A		
LAMBERT FEDERAL #1								
4301316207	10522	08S 16E 22	GRRV			U065914	SL-065914	
FEDERAL 6-33								
4301330747	10628	08S 16E 33	GRRV			U34173		
TOTALS								

COMMENTS:

I hereby certify that this report is true and complete to the best of my knowledge.
Name and Signature: _____ Date: _____
Telephone Number: _____

Lomax Exploration Company

A subsidiary of Inland Resources Inc.



July 13, 1995

State of Utah Department of Natural Resources
Attention: Ms Becky Pritchett
355 W. North Temple
3 Triad Center, Suite 400
Salt Lake City, Utah 84180-1204

RE: Corporate Name Change

Dear Sir or Madame:

Effective July 1, 1995, Lomax Exploration Company will have taken the steps necessary to change its name to **Inland Production Company**. A Certificate issued by the Texas Secretary of State evidencing the name change is attached for your files. We have also attached to this letter those Utah State leases (Exhibit "B") and wells (Exhibit "A") affected by this name change. We have attempted to provide a complete list from the records we have. The intent is to include all leases and wells that Lomax Exploration Company operates or has an interest in.

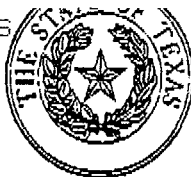
Riders changing the Principal from Lomax Exploration Company to Inland Production Company under Nationwide Oil and Gas Bond # 4488944 for Lomax Exploration Company will be furnished to the State of Utah in the very near future.

Please amend your records by substituting Inland Production Company in place of Lomax Exploration Company on the leases and wells listed on the attached exhibits. In the future we will begin submitting notices and permits for new operations after July 1, 1995 in the name of Inland Production Company.

Should a fee be required or should you need further information or documents relating to our name change please contact the undersigned at your convenience at the following number: (303) 292-0900 or Cheryl Cameron at our Roosevelt, Utah office (801) 722-5103.

Sincerely yours,

Chris A Potter, CPL
Manager of Land



The State of Texas

Secretary of State
JUNE 30, 1995

MIKE PARSONS...GLAST, PHILLIPS & MURRAY
2200 ONE GALLERIA TWR, 13355 NOEL RD, LB48
DALLAS, TX 75240-6657

RE:
INLAND PRODUCTION COMPANY
CHARTER NUMBER 00415304-00

IT HAS BEEN OUR PLEASURE TO APPROVE AND PLACE ON RECORD YOUR ARTICLES OF AMENDMENT. A COPY OF THE INSTRUMENT FILED IN THIS OFFICE IS ATTACHED FOR YOUR RECORDS.

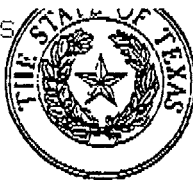
THIS LETTER WILL ACKNOWLEDGE PAYMENT OF THE FILING FEE.

IF WE CAN BE OF FURTHER SERVICE AT ANY TIME, PLEASE LET US KNOW.

VERY TRULY YOURS,




Antonio O. Garza, Jr., Secretary of State



The State of Texas

Secretary of State

CERTIFICATE OF AMENDMENT

FOR

INLAND PRODUCTION COMPANY

FORMERLY

LOMAX EXPLORATION COMPANY
CHARTER NUMBER 00415304

THE UNDERSIGNED, AS SECRETARY OF STATE OF THE STATE OF TEXAS,
HEREBY CERTIFIES THAT THE ATTACHED ARTICLES OF AMENDMENT FOR THE ABOVE
NAMED ENTITY HAVE BEEN RECEIVED IN THIS OFFICE AND ARE FOUND TO
CONFORM TO LAW.

ACCORDINGLY THE UNDERSIGNED, AS SECRETARY OF STATE, AND BY VIRTUE
OF THE AUTHORITY VESTED IN THE SECRETARY BY LAW, HEREBY ISSUES THIS
CERTIFICATE OF AMENDMENT.

DATED JUNE 29, 1995

EFFECTIVE JUNE 29, 1995




Antonio O. Garza, Jr., Secretary of State

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION
OF
LOMAX EXPLORATION COMPANY

FILED
In the Office of the
Secretary of State of Texas

JUN 29 1995

Corporations Section

Pursuant to the provisions of Part Four of the Texas Business Corporation Act, the undersigned corporation adopts the following articles of amendment to its Articles of Incorporation:

1. Name. The name of the corporation is LOMAX EXPLORATION COMPANY.
2. Statement of Amendment. The amendment alters or changes Article One of the original Articles of Incorporation to read in full as follows:

"Article One. The name of the corporation is INLAND PRODUCTION COMPANY."

3. Shareholders. The number of shares of the corporation outstanding at the time of such adoption was 205,315, there being 107,546 Common Shares and 97,769 Non-voting Preferred Shares; and the number of shares entitled to vote thereon was 107,546.

4. Adoption by Shareholders. Only the holders of Common Shares of the corporation are entitled to vote on the amendment. The shareholders adopted the foregoing amendment by unanimous written consent dated June 23, 1995, pursuant to the provisions of Article 9.10 of the Texas Business Corporation Act and, therefore, no notice was required to be delivered under said Article 9.10.

5. Adoption by Board of Directors. The Board of Directors adopted said amendment by a consent in writing signed by all Directors.

6. Future Effective Date. This amendment will become effective on July 1, 1995, at 12:01 a.m.

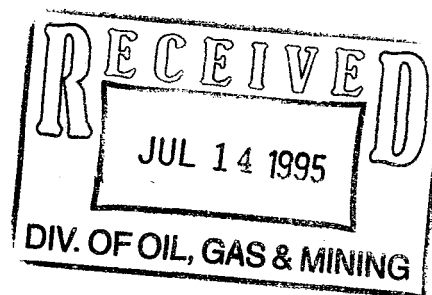
EXECUTED June 26, 1995.



Kyle R. Miller, President

Lomax Exploration Company

A subsidiary of Inland Resources Inc.



Announcing
Our Name Change

From

Lomax Exploration Company

To

**Inland Production
Company**

** N 5160 assigned 7/26/95. Lee*

Field And Corporate Office Locations Remain The Same:

Corporate Office:

Inland Resources Inc.

475 Seventeenth Street, Suite 1500

Denver, CO 80202

Field Office:

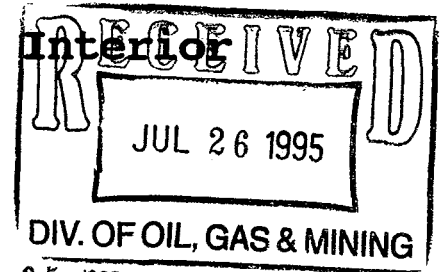
W. Pole Line Road

P.O. Box 1446

Roosevelt, Utah 84066

United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155



JUL 25 1995

IN REPLY REFER TO:
3100
SL-065914 et al
(UT-923)

NOTICE

Inland Production Company	:	Oil and Gas Leases
475 Seventeenth St., Ste. 1500	:	SL-065914 et al
Denver, Colorado 80202	:	

Name Change Recognized

Acceptable evidence has been received in this office concerning the change of name of Lomax Exploration Company to Inland Production Company on Federal oil and gas leases.

The oil and gas lease files identified on the enclosed exhibit have been noted as to the name change. We are notifying the Minerals Management Service and all applicable Bureau of Land Management offices of the name change by a copy of this notice. If additional documentation for changes of operator are required by our Field Offices, you will be contacted by them.

For our purposes, the name change is recognized effective June 29, 1995 (Secretary of State's approval date).

Due to the name change, the name of the principal/obligor on the bond is required to be changed from Lomax Exploration Company to Inland Production Company on Bond No. 4488944 (BLM Bond No. UT0056). You may accomplish this name change either by consent of the surety on the original bond or by a rider to the original bond. Otherwise, a replacement bond with the new name should be furnished to this office. BLM Bond Nos. MT0771 and WY0821 should also be changed for the bonds held by Montana and Wyoming respectively.

/s/ ROBERT LOPEZ

Chief, Branch of Mineral
Leasing Adjudication

Enclosure
1-Exhibit (1 p)

cc: Hartford Accident & Indemnity Co.
Hartford Plaza
Hartford, CT 06115

bc: Moab District Office
Vernal District Office
Montana State Office
Wyoming State Office
Eastern States Office
MMS--Data Management Division, MS 3113, P.O. Box 5860, Denver, CO 80217
State of Utah, Attn: Lisha Cordova, Division of Oil, Gas & Mining,
355 West North Temple, 3 Triad Center, Suite 350, SLC, UT 84180
Teresa Thompson (UT-922)
Dianne Wright (UT-923)

EXHIBIT

SL-065914	U-36846	UTU-66185
SL-071572A	U-38428	UTU-67170
U-02458	U-45431	UTU-68548
U-15855	U-47171	UTU-69060
U-16535	U-50376	UTU-69061
U-26026	U-62848	UTU-72103
U-34173	UTU-65965	UTU-72104
U-36442	UTU-66184	UTU-73088

FAX COVER SHEET



RESOURCES INC.
475 17th Street, Suite 1500
Denver, CO 80202
303-292-0900, Fax #303-296-4070

DATE: August 8, 1995
TO: Lisha Cordova
COMPANY: State of Utah - Division of Oil, Gas and Mining
FAX NUMBER: 801 359 3940
FROM: Chris A Potter

NUMBER OF PAGES: 1 (INCLUDING COVER SHEET):

RE: Transfer of Authority to Inject
Lomax Exploration Company to Inland Production Company

I hope the info I sent to you August 1st was acceptable regarding our name change and your phone call to me last week.....

If there is anything missing or you need additional info, please let me know. I am located in our Denver office.....

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing: (GIL) *[initials]*

1-DEC 7-PL
2-LWP 8-SJ
3-DTS 9-FILE
4-VLC
5-RJF
6-LWP

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- ☒ Change of Operator (well sold) ☐ Designation of Agent
☐ Designation of Operator ☐ Operator Name Change Only

(MERGER)

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 6-29-95)

TO (new operator) INLAND PRODUCTION COMPANY
 (address) PO BOX 1446
ROOSEVELT UT 84066
KEBBIE JONES
 phone (801) 722-5103
 account no. N 5160

FROM (former operator) LOMAX EXPLORATION COMPANY
 (address) PO BOX 1446
ROOSEVELT UT 84066
KEBBIE JONES
 phone (801) 722-5103
 account no. N 0580

Well(s) (attach additional page if needed):

Name: **SEE ATTACHED**	API: <u>013-30665</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- See* 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 7-14-95)*
- N/A* 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- See* 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) no If yes, show company file number: _____ *(7-28-95)*
- See* 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- See* 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(7-31-95)*
- LWP* 6. Cardex file has been updated for each well listed above. *8-16-95*
- LWP* 7. Well file labels have been updated for each well listed above. *8-22-95*
- See* 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(7-31-95)*
- See* 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (~~Fee wells only~~) *Trust Lands Admin. / Rider or Repl. in Progress.*

- N/A Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- ___ 2. A copy of this form has been placed in the new and former operators' bond files.
- ___ 3. The former operator has requested a release of liability from their bond (yes/no) ___. Today's date _____ 19___. If yes, division response was made by letter dated _____ 19__.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19__, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- OTS 2. Copies of documents have been sent to State Lands for changes involving State leases.
8/23/95 sent to Ed Bunker

FILMING

- ✓ 1. All attachments to this form have been microfilmed. Date: August 30 19 95.

FILING

- ___ 1. Copies of all attachments to this form have been filed in each well file.
- ___ 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

950726 Blm/SL Appr. eff. 6-29-95.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Inland Production Company

3. Address and Telephone No.

P.O. Box 1446 Roosevelt, UT 84066 (801) 722-5103

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SW/SW 515' FSL & 517' FWL
Sec. 21, T8S, R17E**

5. Lease Designation and Serial No.

U-50376

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Boundary Federal #13-21

9. API Well No.

43-013-30665

10. Field and Pool, or Exploratory Area

11. County or Parish, State

Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
- ☒ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Inland Production Company requests approval to convert the Boundary Federal #13-21 to use as a water supply, instead of converting to the already approved injector enhanced recovery project. The proposed perforations are 870'-896' & 3438'-3448'.

14. I hereby certify that the foregoing is true and correct

Signed **Cheryl Cameron** Title **Regulatory Compliance Specialist** Date **2/23/96**

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

***See Instruction on Reverse Side**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other **Water Supply Source**

2. Name of Operator

Inland Production Company

3. Address and Telephone No.

P.O. Box 1446 Roosevelt, UT 84066 (801) 722-5103

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SW/SW 515' FSL & 517' FWL
Sec. 21, T8S, R17E**

5. Lease Designation and Serial No.

U-50376

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Boundary Federal #13-21

9. API Well No.

43-013-30665

10. Field and Pool, or Exploratory Area

11. County or Parish, State

Duchesne County, Utah

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **Conversion to Water Supply**

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

WEEKLY STATUS REPORT FOR WEEK OF 2/9/96 - 2/21/96:

2/9/96: Perf 870'-896'. TIH to 910' w/ 2 3/8" to 2 7/8" X-O & 30 jts 2 7/8" WC 50 tbg.

2/15/96: Perf wtr sd @ 3438'-3448'. TIH w/ RH, pkr, SN & 113 jts. Set pkr @ 3408'. Frac wtr sd w/ 29,400# 16/30 sd in 7941 gal fluid.

2/22/96: POOH w/ 113 jts tbg. RIH w/ NC, SN, 113 jts tbg to 3410'. BP @ 3600'.

14. I hereby certify that the foregoing is true and correct

Signed **Cheryl Cameron** Title **Regulatory Compliance Specialist** Date **2/23/96**

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other In-
structions on
reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-50376

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

Boundary Federal 13-21

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec. 21, T8S, R17E

12. COUNTY OR
PARISH

Duchesne

13. STATE

UT

19. ELEV. CASINGHEAD

-

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL ☐ WELL GAS ☐ WELL DRY ☐ Other

b. TYPE OF COMPLETION:

NEW
WELL ☐

WORK
OVER ☐

DEEP-
EN ☐

PLUG
BACK ☐

DIFF.
RESVR. ☒

Other

Water Supply
Source

2. NAME OF OPERATOR

Inland Production Company

3. ADDRESS OF OPERATOR

P.O. Box 1446 Roosevelt, UT 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface SW/SW

At top prod. interval reported below

At total depth

515' FSL & 517' FWL

14. PERMIT NO.

43-013-30665

DATE ISSUED

5/13/82

15. DATE SPUDDED

6/30/82

16. DATE T.D. REACHED

7/9/82

17. DATE COMPL. (Ready to prod.)

7/26/82

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

5258' GR

20. TOTAL DEPTH, MD & TVD

5752'

21. PLUG, BACK T.D., MD & TVD

5665'

22. IF MULTIPLE COMPL.,
HOW MANY*

→

23. INTERVALS
DRILLED BY

ROTARY TOOLS

X

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

870' - 896' ; 3438' - 3448' (Water Sand)

Green River

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

DLL-MSFS, FDC-CNL, CBL (All on file w/ the BLM & the State of Utah)

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
5 1/2	15.5#	5750'	7 7/8		

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

870' - 896'

3438' - 3448' Water Sand

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3438'-3448'	29,400# 16/30 in 7941 gal fluid

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
						Shut In	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
			→				
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
		→					

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

None

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Cheryl Cameron

TITLE Regulatory Compliance Specialist

DATE 5/7/96

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

38.

GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Garden Gulch Mkr	4482'					
Pt 3 Mkr	4766'					
X Mkr	4996'					
Y Mkr	5030'					
Douglas Creek	5160'					
BiCarbonate	5420'					
B Limestone	5569'					

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

U-50376

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Boundary Federal #13-21

9. API Well No.

43-013-30665

10. Field and Pool, or Exploratory Area

Boundary

11. County or Parish, State

Duchesne County, Utah

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well

☐ Gas Well

☒ Other

Water Supply Source

2. Name of Operator

Inland Production Company

3. Address and Telephone No.

P.O. Box 1446 Roosevelt, Utah 84066 (801)722-5103

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW/SW 515' FSL & 517' FWL
Sec. 21, T8S, R17E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☐ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other On production

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

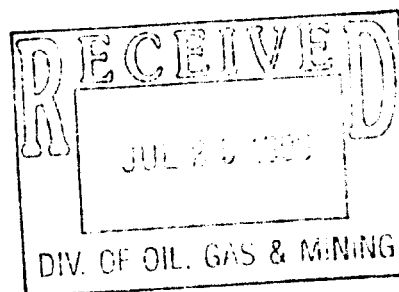
☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The Boundary Federal #13-21 was put on "water production" 6/21/96.



14. I hereby certify that the foregoing is true and correct

Signed

Cheryl Cameron

Title Regulatory Compliance Specialist

Date 7/22/96

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

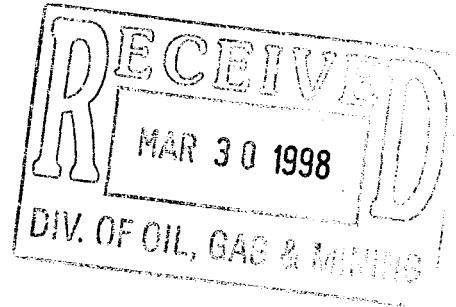
*See Instruction on Reverse Side



March 26, 1998

Mr. Dan Jarvis
State of Utah
Division of Oil, Gas and Mining
P. O. Box 145801
Salt Lake City, Utah 84114-5801

RE: Mechanical Integrity Test
Boundary Federal #13-21
SWSW Sec 21-T8S-R17E
Duchesne County, Utah



Dear Mr. Jarvis:

Please find attached, Form 3160-5, Sundry Notice and Report on Wells, for work performed on the above referenced well. Should you have any questions or require additional information, please contact me at (303) 382-4434.

Sincerely,

Debbie E. Knight
Permitting Specialist

cc: Mr. Edwin Forsman, BLM

801 789 1877

Form 3160-5
(June 1990)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 30 1998

FORM APPROVED
Budget Bureau No. 1004-0114
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other WIW

2. Name of Operator

Inland Production Company (303)292-0900

3. Address and Telephone No.

410 17th Street, Suite 700, Denver, CO 80202

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SW/4 Section 21-T8S-R1E

515' FSL and 517' FWL

7. If Unit or CA, Agreement Designation

Boundary

8. Well Name and No.

Boundary Federal #3-21

9. API Well No.

43-013-30665

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne, Utah

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent☒ Subsequent Report☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment☐ Resorption☐ Plugging Back☐ Casing Repair☐ Altering Casing☐ Other☐ Change of Plans☐ New Construction☐ Non-Routine Fracturing☐ Water Shut-Off☒ Conversion to Injection☐ Dispose Water(Note: Report results of multiple completion on 1
Completion or Resorption Report and Log for

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The above referenced well was converted from a producer to an injector on 3-12-98, and a mechanical integrity test has been performed. Please refer to the following attachments:

1. Daily Workover Report
2. Step Rate Record
3. Copy of Chart.
4. Completion Report

The following agencies were notified prior to the MIT, but did not attend:

1. Dan Jarvis, DOGM
2. John Carson, EPA - gave verbal approval to Mike Guinn for a 300# test, instead of a 1000# test.

Approval is requested to begin injection.

14. I hereby certify that the foregoing is true and correct

Signed Debbie KnightTitle Permitting SpecialistDate 3-26-98

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

Date _____

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Received Time Mar. 4, 10:28AM

Form 3160-4
(November 1983)
(formerly 9-330)

801 789 1877

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(Keep other in-
structions on
covering side)

Form approved
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: ☐ OIL WELL ☐ GAS WELL ☐ DRY ☐ Other W/LW

2. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ REPAIR ☐ Other Inj. Conversion

3. NAME OF OPERATOR

Inland Production Company

4. ADDRESS OF OPERATOR

410 17th Street, Suite 700, Denver, CO 80202

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface SW/SWAt top prod. interval reported below 515' FSL and 517' FWL

At total depth

14. PERMIT NO.

43-013-30665

DATE ISSUED

5-13-82

15. DATE SPIDDED

6-30-82

16. DATE T.D. REACHED

7-9-82

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DT, RKB, RT, OR, ETC.)*

5258' GR

19. TOTAL DEPTH, MD & TVD

5752'

20. PLUG, BACK T.D., MD & TVD

5665'

21. IF MULTIPLE COMPL., HOW MANY*

NA

22. INTERVALS DRILLED BY

Sfc to TD

23. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

Green River 5232'-5274'

24. TYPE ELECTRIC AND OTHER LOGS RUN

Previously submitted

25. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FILLED
<u>8 5/8"</u>	<u>24#</u>	<u>238'</u>	<u>12 1/4"</u>	<u>220 SX Class "G"</u>	<u>none</u>
<u>5 1/2"</u>	<u>15.5#</u>	<u>5750'</u>	<u>7 7/8"</u>	<u>180 SX Dowell Lite and</u>	<u>none</u>
				<u>285 SX Dowell REC 10-0</u>	

26. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	SCREEN SET (MD)
					<u>2 7/8"</u>	<u>5357'</u>	<u>5149'</u>

27. PERFORATION RECORD (Interval, size and number)

5232-40' 870'-896'
5257-60' 3438'-3448'
5264-74'

28. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
<u>870'-896'</u>	<u>100 SX Prem Plug - AG cmt</u>
<u>3438'-3448'</u>	<u>125 SX Prem Plug - AG cmt</u>

29. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut in) Injection	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (COND.)	

30. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

31. LIST OF ATTACHMENTS

32. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED

Dekker Knight

TITLE

Permitting Specialist

DATE

3-26-98

*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. person knowingly and willfully to make to any department or agency of the United States or representations as to any matter within its jurisdiction.

Received Time Mar. 4 10:28 AM

801 789 1877

GEOLOGIC MARKERS

५

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; core intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

[illegible]

Recieved Time, Mar. 4. 10:28AM



Daily Workover Report

BOUNDARY FEDERAL 13-21
SW/SW Sec. 21, 8S, 17E
Duchesne Co., Utah
API # 43-013-30665

Spud Date: 6/30/82
TD: 5752'
WO Rig: Flint #4357

2/13/98 PO: MIRU. (Day 1)

Summary: 2/12/98 - TP: 0, CP: 0. MIRUSU. RD pmp unit. SIFN.
DC: \$490 TWC: \$490

2/16/98 PO: LD rods. (Day 2)

Summary: 2/15/98 - TP: 0, CP: 200. Pressure tubing to 1300 psi. Unseat pump. Pump 65 Bbls production water down tubing. TOH w/rods laying them down. RU BOP. TOH w/tubing (tally out). Rods layed down, 1 1/2"x22' Polished rod, 2', 4', 8', 8' x 3/4" Pny rods, 138 - 3/4" Slick rods, 4 - 1 1/2" Wt. rods & 2 1/2"x2"x20' RWAC. SIFN.
DC: \$1,717 TWC: \$2,207

2/17/98 PO: Injection Conversion. (Day 3)

Summary: 2/17/98 - TP: 0, CP: 25. Pick-up TIH w/bit & scrapper to 3627'. TOH w/tubing. Pick-up EZ DRILL cement retainer. TIH w/ 20 jts tubing to 616'. SIFN .
DC: \$2,188 TWC: \$4,395

2/18/98 PO: Injection Conversion. (Day 4)

Summary: 2/17/98 - TP: 0, CP: 25. Finish TIH w/tubing. Set retainer @ 3290'. Test tubing to 3000 psi. Pump 40 Bbls. fresh water down tubing @ 790 psi. Pump 125 sxs Prem Plug - AG cement with .3% CFR-3, .2% Halad - 344, 3% Potasium Chloride 1-13 Yield, 16 ppg into holes @ 3438'. Hesitate squeeze cement into perforations. ISIP 2570. Sting out of Retainer. TOH w/tubing. Pick-up Halliburton tension packer & TIH w/tbg. Set packer @ 644'. Circulate 45 Bbls fresh water up 8 5/8" @ 140 psi. Pump Dye and Super Flush Gel into perf @ 870'. Pump 100 sxs Prem Plug - AG cement with .3% CFR-3, .2% Halad - 344, 3% Potasium Chloride 1-13 Yield, 16 ppg, into holes @ 870'. ISIP 300. Shut in well 48 hours waiting on cement.
DC: \$10,609 TWC: \$15,004

2/20/98 PO: Injection Conversion. (Day 5)

Summary: 2/19/98 - CP: 200. Bled off pressure, 200 psi on casing. Release packer. TOH w/ tbg. Pick-up 4 3/4" blade bit. TIH w/ tbg. Tag cement @ 817' KB. Drill out cement to 890'. Circulate to 908'. Test casing to 300 psi (NO TEST) . Bleds off 90 psi in 5 min. SIFN.
DC: \$5,302 TWC: \$20,306



Daily Workover Report – Page Two

BOUNDARY FEDERAL 13-21
SW/SW Sec. 21, 8S, 17E
Duchesne Co., Utah
API # 43-013-30665

Spud Date: 6/30/82
TD: 5752'
WO Rig: Flint #4357

2/21/98 PO: Balance Squeeze. (Day 6)

Summary: 2/20/98 – TP: 0, CP: 0. TIH w/scrapper to 971'. TOH w/scrapper & 32 jts. TIH w/packer to 950' (31 jts & 10' pup jt), set packer. Test casing from 950' to 3290' to 300 psi, held good. Try to test casing from 950' to surface to 300 psi, bleeds off 90 psi in 5 minutes. TOH w/packer. TIH w/ NC, 31 jts. tbgs., 8', 10' x 2 7/8" pup jts., hang at 950'. RU Halliburton Pump 50 fresh water down tubing. Pump 20 sxs Prem Plus AG, 1-13 yield, 16# cement down tbgs with the following additives: .3% CFR - 3, & .2% Halad - 344, pumped at 1.5 bpm at 50 psi for 4 bbls. Displaced w/4.4 bbls. water at 60 psi. TOH and hang tbgs @ 725'. Reverse circulated 14 bbls. (2 was to fill hole). Shut TIW valve, squeeze .5 bbls psi went to 200 psi, took 1 1/2 hrs to squeeze another .5 bbls into perms from 870' to 896' with 200 to 500 psi. Shut well in with 500 psi on it till Monday.

DC: \$3,808 TWC: \$24,115

2/22/98 SD until Monday.

2/24/98 PO: Drill ou squeeze. (Day 7)

Summary: 2/23/98 – TP: 50, CP: 50. Bled well down. TOH w/tbgs. TIH w/blade bit and 27 tbgs. Tag cement 790'. RU power swivel. Drill from 790 - 880'. Shut down and test casing to 300 psi, lost 100 psi in 15 minutes. Finish drilling cement to 938' w/31 jts. Test casing to 430 psi, lost 155 psi in 30 minutes. TOH w/tbgs. SIFN.

DC: \$2,110 TWC: \$26,225

2/25/98

2/26/98 PO: Balance squeeze. (Day 9)

Summary: 2/25/98 – TIH w/2 jts tbgs. Set BV pkr @ 851'. RU Halliburton pmp truck & establish rate into perms @ 870' – 96' (1040 psi @ 3/4 BPM for 5 bbls, ISIP: 850 psi, 2 mins: 675 psi). Release pkr. TOH w/28 jts tbgs. TIH w/NC, 31 jts, 10' pup jt. EOT @ 947'. RU Halliburton & circulate 25 bbls fresh wtr dn tbgs. Mix 25 sx Premium Plus AG cmt, 5# Halad 344, 7# CFR – 3, and 30# KCL. Pmp dn tbgs @ 1.5 BPM for 5 bbls, displace w/4 BW. TOH w/tbgs. Shut BOP. Fill tbgs w/2.25 bbls. Squeeze 1 bbl @ 1200 psi, pressure drop to 685 psi, squeezed another 1/2 bbl @ 1400 psi. ISIP: 1398 psi. Shut well in till Friday w/5000 psi on tbgs.

DC: \$3,510 TWC: \$33,630

3/2/98 PO: WOC. (Day 10)

Summary: 3/1/98 – TP: 80, CP: 80. Thaw out well head. Air compressor on rig bad. Shut rig dn till Monday.

DC: \$848 TWC: \$34,478



Daily Workover Report – Page Three

BOUNDARY FEDERAL 13-21

SW/SW Sec. 21, 8S, 17E

Duchesne Co., Utah

API # 43-013-30665

Spud Date: 6/30/82

TD: 5752'

WO Rig: Flint #4357

3/3/98 PO: Drl top squeeze. (Day 11)

Summary: 3/2/98 – TP: 30, CP: 30. Bleed pressure off well. TIH w/bit, sub, 26 jts tbg. Tag cmt @ 777'. RU swivel. Drl cmt to 890'. Pressure test perfs from 870-90' to 320 psi (test good). SIFN.

DC: \$1,997 TWC: \$36,475

3/4/98 PO: Drl out squeeze. (Day 12)

Summary: 3/3/98 – TP: 80, CP: 80. Bleed pressure off well. RU swivel, drl cmt from 890' – 909'. Pressure test csg to 320 psi. Lost 40 psi in 1 hr. Pressure bleed off 15 psi. SIFN.

DC: \$2,641 TWC: \$39,116

3/5/98 PO: Drl cmt. (Day 13)

Summary: 3/4/98 – TP: 80, CP: 80. Bleed pressure off well. Pressure csg to 305 psi, bleed off 15 psi in 45 min. TOH w/tbg. TIH w/rock bit. Tag cmt @ 3287'. Drl 3' cmt. Drl retainer @ 3290'. Drl cmt @ 3317' to 3323'. SIFN.

DC: \$2,682 TWC: \$41,798

3/6/98 PO: Drl cmt. (Day 14)

Summary: 3/5/98 – TP: 100, CP: 100. RU pmp & swivel, drill cmt from 3328' to 3471'. Test perfs @ 870' & 3438' to 320 psi, didn't bleed off any pressure in 45 minutes. TOH w/tbg. SIFN.

DC: \$2,607 TWC: \$44,405

3/9/98 PO: Drl out CIBP. (Day 15)

Summary: 3/8/98 – TP: 0, CP: 0. TIH w/rock bit & tbg. Tag cmt & sd @ 4983'. Wash dn to CIBP @ 4990'. Drl out BP & push dn hole to 5357' w/176 jts tbg. TOH w/tbg. PU bit & scraper. TIH w/20 jts. SIFN.

DC: \$2,280 TWC: \$46,685

3/10/98 PO: Bit & scraper run. (Day 16)

Summary: 3/9/98 – TP: 0, CP: 0. TIH w/bit & scraper to 5294'. TOH w/bit & scraper. Pick-up Arrow Set 1 pkr & SN. TIH w/41 jts tbg. SIFN.

DC: \$2,137 TWC: \$48,828

3/11/98 PO: Injection conversion. (Day 17)

Summary: 3/10/98 – TP: 0, CP: 0. Finish TIH w/tbg. Hang pkr @ 5149'. RU Hot Oiler pmp 5 gal Anhib along w/77 BW dn csg @ 100 psi. Set pkr w/12,000# tension. Pressure csg to 300 psi w/1 bbl wtr. Pressure bleed off 35 psi in 45 min. SIFN.

DC: \$2,332 TWC: \$51,160



Daily Workover Report – Page Four

BOUNDARY FEDERAL 13-21
SW/SW Sec. 21, 8S, 17E
Duchesne Co., Utah
API # 43-013-30665

Spud Date: 6/30/82
TD: 5752'
WO Rig: Flint #4357

3/12/98 PO: Injection conversion. (Day 18)

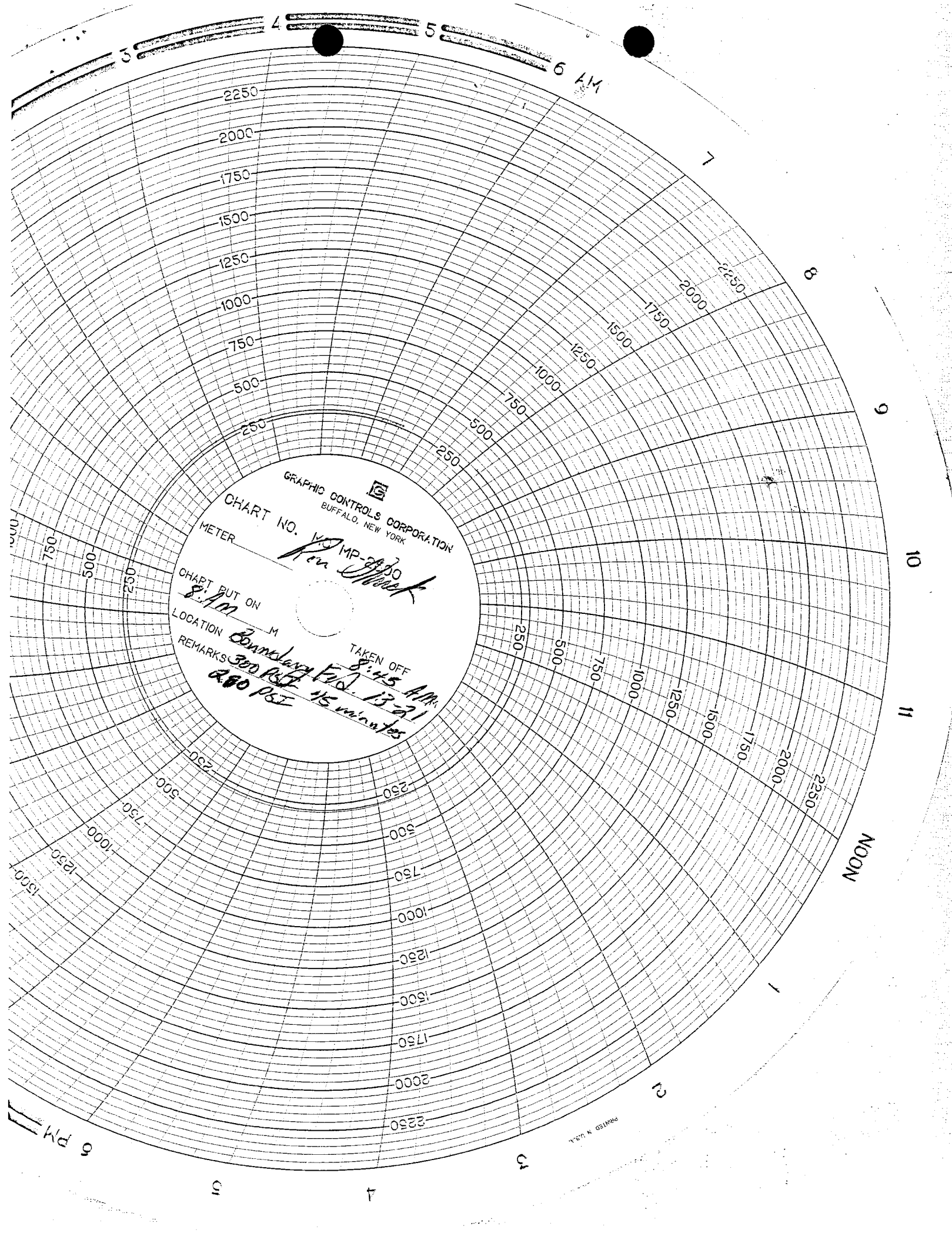
Summary: 3/11/98 – TP: 0, CP: 80. Pressure csg to 300 psi, bleed off 20 psi in 45 min. Injection line & well head needs put together. RDMOSU.
DC: \$8,788 TWC: \$59,948

STEP RATE RECORD

**Mechanical Integrity Test
3-12-98**

**Boundary Federal #13-21
SW SW Sec 21-T8S-R17E
Duchesne County, Utah**

0	Min	300 psig
5	Min	300 psig
10	Min	300 psig
15	Min	300 psig
20	Min	300 psig
25	Min	300 psig
30	Min	300 psig
35	Min	300 psig
40	Min	300 psig
45	Min	300 psig
50	Min	300 psig
55	Min	300 psig
60	Min	300 psig
65	Min	300 psig
70	Min	300 psig
75	Min	300 psig
80	Min	300 psig
85	Min	300 psig
90	Min	300 psig
95	Min	300 psig
100	Min	300 psig
105	Min	300 psig
110	Min	300 psig
115	Min	300 psig
120	Min	300 psig
125	Min	300 psig
130	Min	300 psig
135	Min	300 psig
140	Min	300 psig
145	Min	300 psig
150	Min	300 psig



GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK

CHART NO.

METER

CHART PUT ON

LOCATION

REMARKS

TAKEN OFF

100 MP-2750
Pen Mark
8 AM
Connorsburg, Md.
300 PSI 15 minutes
8:45 AM
13-21

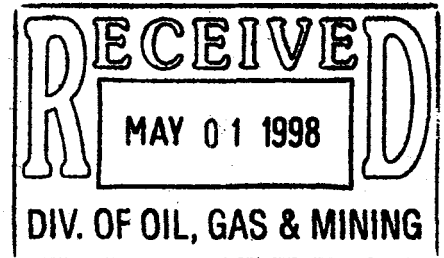
NOON

PRINTED IN U.S.A.



April 29, 1998

Mr. Dan Jarvis
State of Utah
Division of Oil, Gas & Mining
P. O. Box 145801
Salt Lake City, Utah 84114-5801



RE: Date of First Injection
Boundary Federal #13-21
Section 21-T8S-R17E
Duchesne County, Utah

Dear Mr. Jarvis:

Enclosed herewith please find a sundry notice for the above referenced well indicating the date of first injection. Should you have any questions or require additional information, please contact me at (303) 382-4434.

Sincerely,

Debbie E. Knight
Manager, Regulatory Compliance

cc: Mr. Edwin Forsman, BLM

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

WIW

2. Name of Operator

INLAND PRODUCTION COMPANY

3. Address and Telephone No.

410 17TH STREET, SUITE 700, DENVER, COLORADO 80202 (303) 893-0102

4. Location of Well (Footage, Sec., T., R., m., or Survey Description)

0515 FSL 0517 FWL SW/SW Section 21, T08S R17E

5. Lease Designation and Serial No.

U-50376

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

NA

8. Well Name and No.

BOUNDARY FEDERAL 13-21

9. API Well No.

43-013-30665

10. Field and Pool, or Exploratory Area

TREATY BOUNDARY

11. County or Parish, State

DUCHESNE COUNTY, UTAH

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

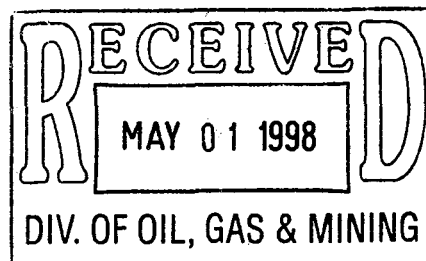
☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other **First Injection**

☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The date of first injection for the above referenced well is April 11, 1998.



14. I hereby certify that the foregoing is true and correct

Signed

Debbie E. Knight

Title

Manager, Regulatory Compliance

Date

4/29/98

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

CC: UTAH DOGM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NO tax credit 10/98



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Ted Stewart
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

UNDERGROUND INJECTION CONTROL PERMIT

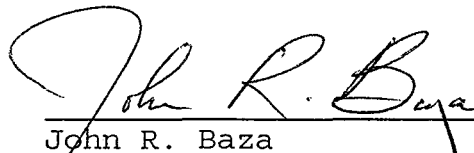
Cause No. UIC-133

Operator: Inland Production Company
Well: Boundary Federal 13-21
Location: Section 21, Township 8 South, Range 17 East,
County: Duchesne
API No.: 43-013-30665
Well Type: Enhanced Recovery (waterflood)

Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued by letter dated August 4, 1993.
2. Maximum Allowable Injection Pressure: 1868 psig.
3. Maximum Allowable Injection Rate: (restricted by pressure limitation).
4. Injection Interval: 5232 feet to 5274 feet (Green River Formation).

Approved by:



John R. Baza
Associate Director, Oil and Gas

4/2/98

Date

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

1. SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. U-50376	
2. NAME OF OPERATOR INLAND PRODUCTION COMPANY		6. IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A	
3. ADDRESS OF OPERATOR Route #3 Box 3630 Myton, Utah 84052 (435) 646-3721		7. UNIT AGREEMENT NAME GREATER BOUNDARY	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface SW/SW 0515 FSL 0517 FWL		8. FARM OR LEASE NAME BOUNDARY FEDERAL 13-21	
14 API NUMBER 43-013-30665		9. WELL NO. Federal 13-21	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5258 GR		10. FIELD AND POOL, OR WILDCAT TREATY BOUNDARY	
12. COUNTY OR PARISH DUCHESNE		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW/SW Section 21, T08S R17E	
13. STATE UT			

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>		(OTHER) <u>Step-Rate Test</u>	<input checked="" type="checkbox"/>
(OTHER) _____		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

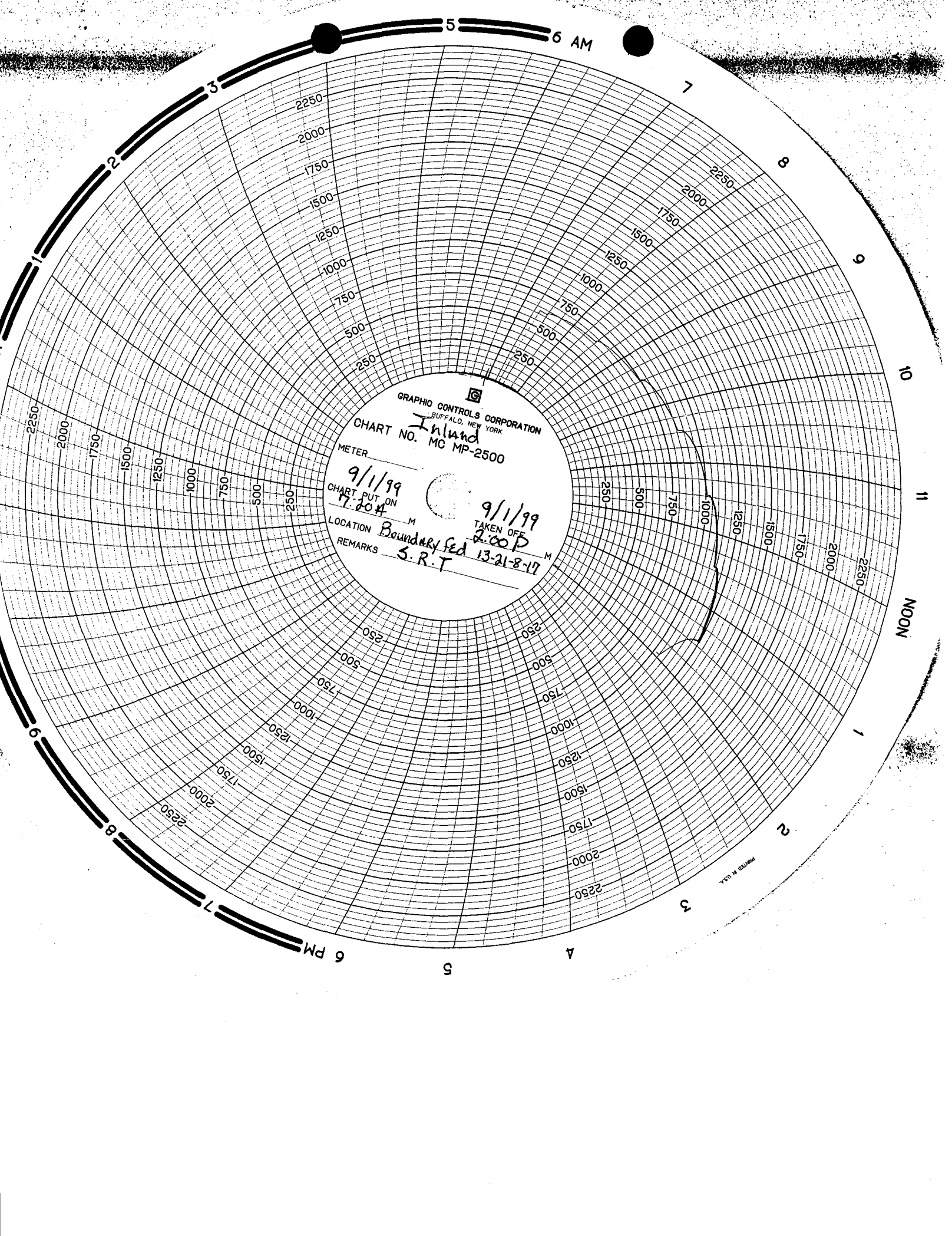
17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On September 1, 1999 Inland Production Company conducted a Step-Rate Test (SRT) on Federal #13-21 injection well in the Greater Boundary Unit. Due to the results of the attached SRT Inland is requesting approval for Maximum Allowable Injection Pressure to 925 psi on this well.

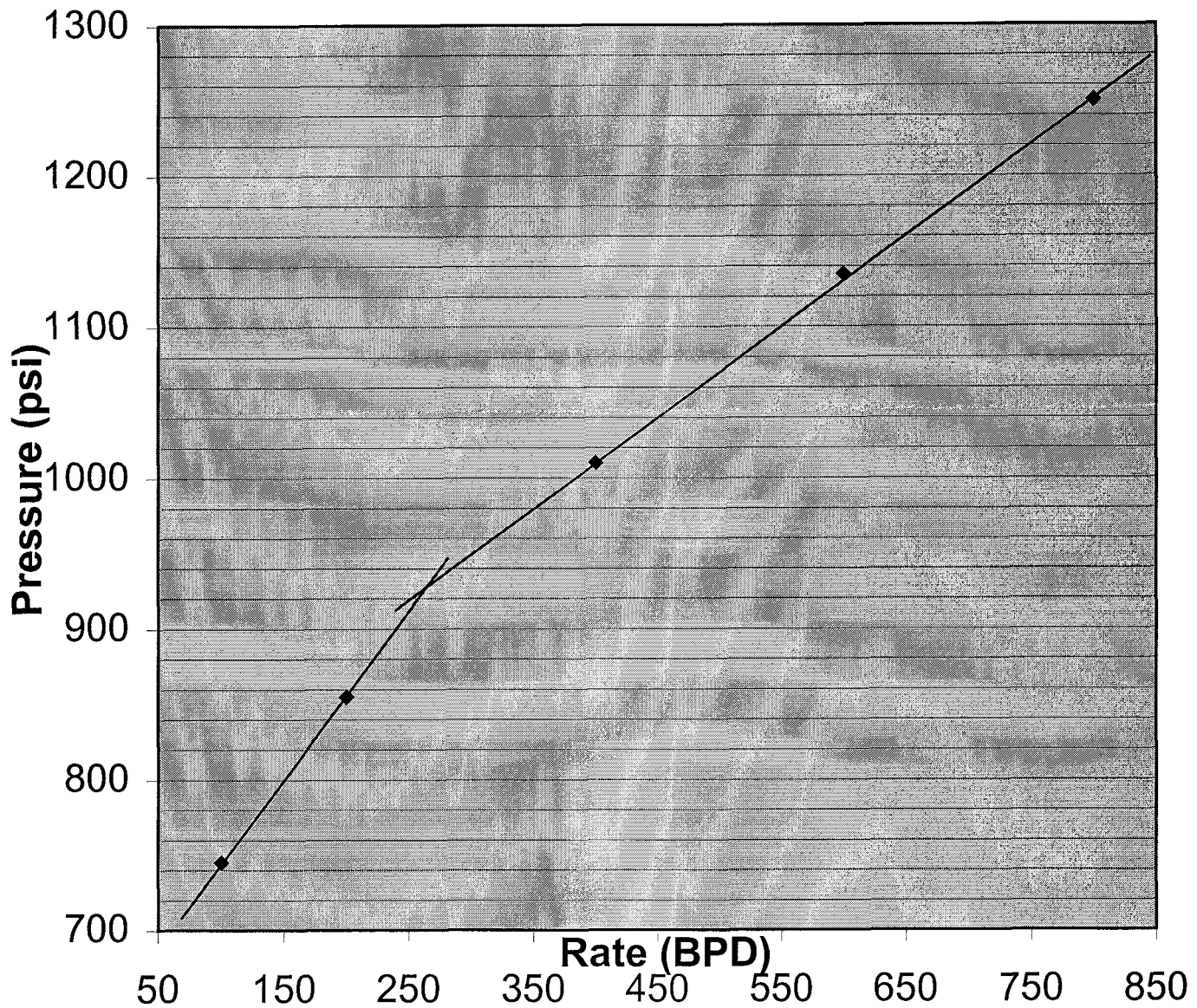
Approved by the
Utah Division of
Oil, Gas and Mining
Date: 10/19/99
By: [Signature]

18 I hereby certify that the foregoing is true and correct
SIGNED Brad Mechem TITLE Operations Manager DATE 9/2/99
Brad Mechem

(This space for Federal or State office use)
APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____
COPY SENT TO OPERATOR
Date: 10-19-99
Initials: CHD



BF13-21
(Boundary Unit)
Step Rate Test
September 1, 1999



ISIP: 1,200 psi

Fracture pressure: 925 psi

FG: 0.612

Step	Rate(bpd)	Pressure(psi)
1	50	670
2	100	745
3	200	855
4	400	1010
5	600	1135
6	800	1250



September 2, 1999

State of Utah
Division of Oil, Gas & Mining
Attn: Dan Jarvis
1594 West North Temple - Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Dear Dan:

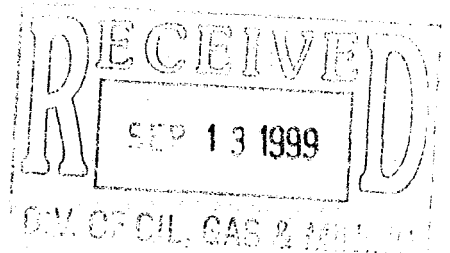
Please find enclosed Step Rate Tests (SRT) results on the Boundary Federal #13-21 injection well in the Greater Boundary Unit. The SRT was conducted by Inland Production Company on September 2, 1999. Due to the results of the SRT Inland is requesting a change in the maximum allowable injection pressure to 925 psi for this well.

Thank you for your assistance. If you have any questions or need further information, please don't hesitate to call me at (435) 646-3721.

Sincerely,

Brad Mecham
Operations Manager

/bm



Inland Resources Inc.
Greater Boundary Unit
Well List
Status as of March 27, 1998

To: Lisa
From: Debbie

all of these
are 43-013-

#12391 "Greater Boundary (GPRV) Unit"

Lease Name	Status	Operator	Twp	Rge	Sec	Spot	Accounting No.	API Code
BOUNDARY FEDERAL 7-20307500051INJ	INJ	INLAND	08S	17E	20	7.0	UMBOI001	30750 8407
BOUNDARY FED 11-21	INJ	INLAND	08S	17E	21	11.0	UMBOI002	30752 10630
BOUNDARY FEDERAL 15-21	INJ	INLAND	08S	17E	21	15.0	UMBOI003	31622 11924
BOUNDARY FEDERAL #10-20	P&A	N/A	08S	17E	20	10	#N/A	
TAR SANDS FEDERAL 12-28	P&A	INLAND	08S	17E	28	12.0	#N/A	
TAR SANDS FEDERAL #32-29	P&A	N/A	08S	17E	29	7	#N/A	
BOUNDARY FEDERAL 6-20	PDP	INLAND	08S	17E	20	6.0	UMBOP001	31626 11991
BOUNDARY FEDERAL 8-20	PDP	INLAND	08S	17E	20	8.0	#N/A	31993 12329
BOUNDARY FEDERAL 9-20	PDP	INLAND	08S	17E	20	9.0	UMBOP002	30690 8408
BOUNDARY FEDERAL 15-20	PDP	INLAND	08S	17E	20	15.0	UMBOP003	30667 8409
BOUNDARY 6-21	PDP	INLAND	08S	17E	21	6.0	UMBOP005	31889 1226
BOUNDARY 7-21	PDP	INLAND	08S	17E	21	7.0	UMZZP053	31640 1202
BOUNDARY 8-21	PDP	INLAND	08S	17E	21	8.0	UMZZP052	31557 1185
BOUNDARY FEDERAL 9-21	PDP	INLAND	08S	17E	21	9.0	UMBOP006	31542 11806
BOUNDARY FEDERAL 10-21	PDP	INLAND	08S	17E	21	10.0	UMBOP007	31532 11803
BOUNDARY FEDERAL 12-21	PDP	INLAND	08S	17E	21	12.0	UMBOP008	31440 11709
BOUNDARY FEDERAL 13-21	PDP	INLAND	08S	17E	21	13.0	UMBOW001	30665 2660
BOUNDARY FEDERAL 14-21	PDP	INLAND	08S	17E	21	14.0	UMBOP009	31441 11768
BOUNDARY FEDERAL 16-21	PDP	INLAND	08S	17E	21	16.0	UMBOP010	31627 11934
TAR SANDS FEDERAL 2-28	PDP	INLAND	08S	17E	28	2.0	UMZZP079	11939 31642
TAR SANDS FEDERAL 3-28	PDP	INLAND	08S	17E	28	3.0	UMZZP078	11923 31623
TAR SANDS FEDERAL 4-28	PDP	INLAND	08S	17E	28	4.0	UMZZP080	11938 31641
TAR SANDS FEDERAL 5-28 (I)	PDP	INLAND	08S	17E	28	5.0	UMZZP114	12171 31697
TAR SANDS FED 6-28	PDP	INLAND	08S	17E	28	6.0	UMZZP116	12241 31921
TAR SANDS FED 13-28	PDP	INLAND	08S	17E	28	13.0	UMZZP105	12176 31771
TAR SANDS FEDERAL 1-29	PDP	INLAND	08S	17E	29	1.0	UMZZP115	12168 31743
TAR SANDS FED 8-29	PDP	INLAND	08S	17E	29	8.0	UMZZP117	12242 31922
TAR SANDS FEDERAL 9-29	PDP	INLAND	08S	17E	29	9.0	#N/A	12281 31942
TAR SANDS FEDERAL 12-29	PDP	INLAND	08S	17E	29	12.0	UMZZP113	12261 31924
TAR SANDS FEDERAL 16-29	PDP	INLAND	08S	17E	29	16.0	UMZZP106	12212 31871
TAR SANDS FEDERAL 1-33	PDP	INLAND	08S	17E	33	1.0	UMZZP108	12265 31863
TAR SANDS FEDERAL 2-33	PDP	INLAND	08S	17E	33	2.0	UMZZP107	12271 31867
BOUNDARY FED 5-21	SI	INLAND	08S	17E	21	5.0	UMBOP004	30822 11162
FEDERAL 1-26	SI	INLAND	08S	17E	26	3.0	431162	4304731953 11225

Thanks for your help.

OPERATOR INLAND PRODUCTION COMPANY

OPERATOR ACCT. NO. N5160

ADDRESS _____

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D		12391		**SEE ATTACHED**							5-1-98
WELL 1 COMMENTS: GREATER BOUNDARY (GRRV) UNIT EFF 5-1-98											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

(3/89)

L. CORDOVA (DOGM)

Signature

ENG. TECH

6-26-98

Title

Date

Phone No. ()

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

1. SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.) OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> WELL <input type="checkbox"/> WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. UTU-76954 6. IF INDIAN, ALLOTTEE OR TRIBAL NAME N/A 7. UNIT AGREEMENT NAME GREATER BOUNDARY 8. FARM OR LEASE NAME BOUNDARY FED 13-21 9. WELL NO. BOUNDARY FED 13-21 10. FIELD AND POOL, OR WILDCAT MONUMENT BUTTE 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW/SW Section 21, T8S R17E	
2. NAME OF OPERATOR INLAND PRODUCTION COMPANY 3. ADDRESS OF OPERATOR Rt. 3 Box 3630, Myton Utah 84052 435-646-3721 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface SW/SW Section 21, T8S R17E 515 FSL 517 FWL		12. COUNTY OR PARISH DUCHESNE 13. STATE UT	
14. API NUMBER 43-013-30665		15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5258 GR	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data			
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF <input type="checkbox"/> PULL OR ALTER CASING <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> ABANDON* <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> <input type="checkbox"/> (OTHER) <input type="checkbox"/>		SUBSEQUENT REPORT OF: WATER SHUT-OFF <input type="checkbox"/> REPAIRING WELL <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/> (OTHER) <input checked="" type="checkbox"/> Workover/Recompletion (Note: Report results of multiple completion on Well Completion or Recombination Report and Log form.)	

17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The subject injection well was recompleted in the Green River Formation. One new interval was perforated, the GB sds 4664'-4686' w/4 JSPF for a total of 88 shots.

The well also developed a leak in the casing. A rig moved on and repaired the leak on 8/15/03.

On 8/13/03 Mr. Al Craver w/EPA was contacted of the intent to conduct a MIT on the casing. On 8/15/03 the casing was pressured to 1250 psi w/ no pressure loss charted in the 1/2 hour test. No governmental agencies were able to witness the test.

18 I hereby certify that the foregoing is true and correct

SIGNED Krishna Russell TITLE Production Clerk DATE 8/20/2003
 Krishna Russell

cc: BLM

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

* See Instructions On Reverse Side

Accepted by the
Utah Division of
Oil, Gas and Mining
Date: 08-26-03
By: [Signature]

RECEIVED
AUG 22 2003
DIV. OF OIL, GAS & MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency

Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW

999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: None Date: 8 / 15 / 03
Test conducted by: Cheyenne Bateman
Others present: None

Well Name: Boundary Fed. 13-21-8-17 Type: ER SWD Status: AC TA UC
Field: Boundary
Location: BF 13-21 Sec: 21 T 8S N / S R 10E E / W County: Duchesne State: UT.
Operator: Talant production
Last MIT: 3 / 12 / 98 Maximum Allowable Pressure: 925 PSIG

Is this a regularly scheduled test? ☐ Yes ☒ No
Initial test for permit? ☐ Yes ☐ No
Test after well rework? ☒ Yes ☐ No
Well injecting during test? ☐ Yes ☒ No If yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: 1250 Lsg 0 Tbg psig

MIT DATA TABLE		Test #1	Test #2	Test #3
TUBING PRESSURE				
Initial pressure	0	psig	psig	psig
End of test pressure	0	psig	psig	psig
CASING/TUBING ANNULUS PRESSURE				
0 minutes	1250	psig	psig	psig
5 minutes	1250	psig	psig	psig
10 minutes	1250	psig	psig	psig
15 minutes	1250	psig	psig	psig
20 minutes	1250	psig	psig	psig
25 minutes	1250	psig	psig	psig
30 minutes	1250	psig	psig	psig
_____ minutes		psig	psig	psig
_____ minutes		psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

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MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or printed text on the paper. A small dark speck is visible on the left side, about one-third of the way down from the top edge.

Signature of Witness: _____

OFFICE USE ONLY - COMPLIANCE FOLLOWUP

Staff: _____ Date: ____/____/____

Do you agree with the reported test results? ☐ YES ☐ NO

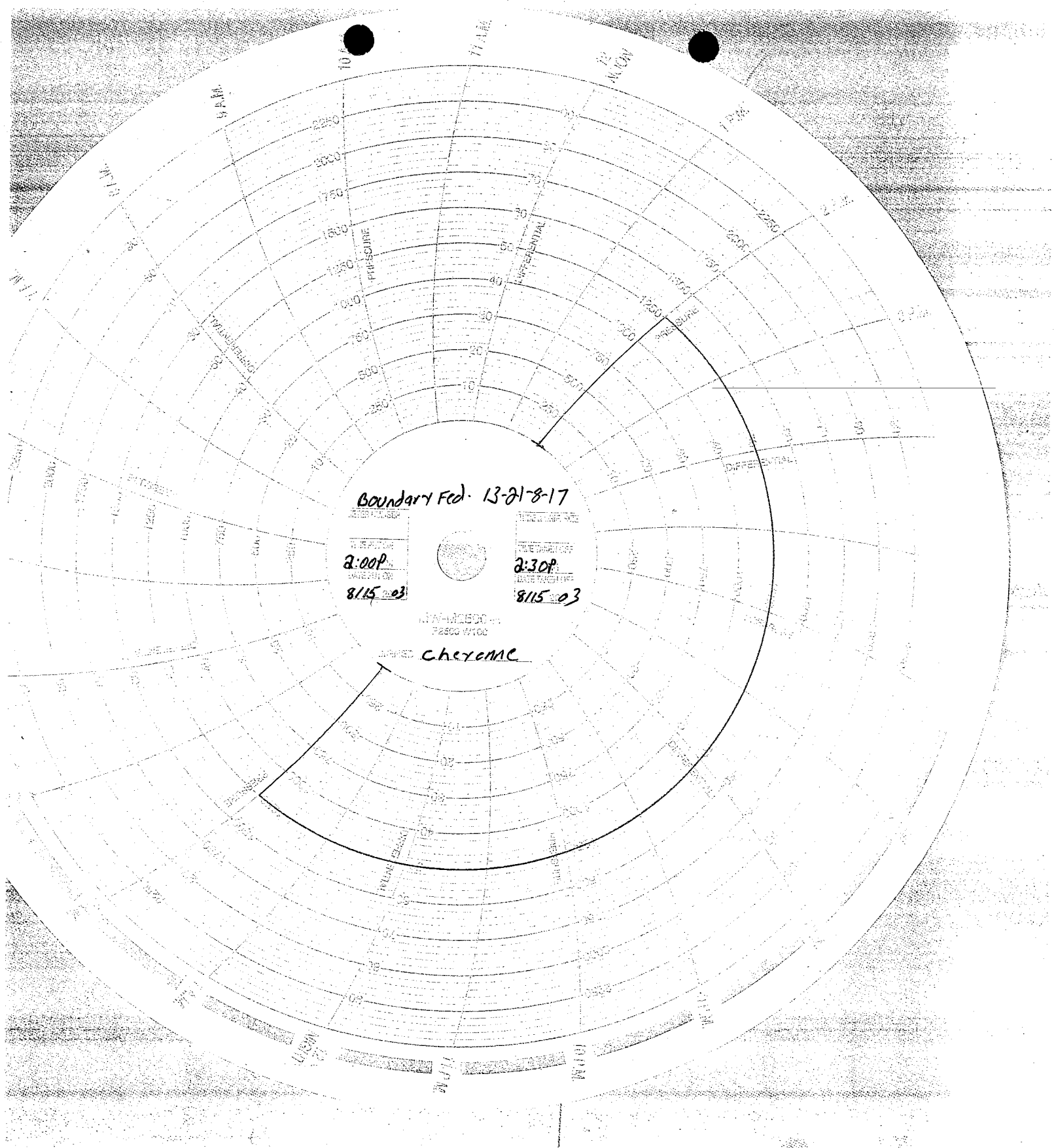
If not, why? _____

Possible violation identified? ☐ YES ☐ NO

If YES, what _____

If YES - followup initiated? ☐ YES

☐ NO - why not?



STATE OF UTAH

DIVISION OF OIL, GAS, AND MINING

1. **SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.

Use "APPLICATION FOR PERMIT TO DRILL OR DEEPEN" form for such proposals.

OIL ☐ GAS ☐ OTHER ☒ **Injection Well**2. NAME OF OPERATOR
INLAND PRODUCTION COMPANY3. ADDRESS AND TELEPHONE NUMBER
Rt. 3 Box 3630, Myton Utah 84052
435-646-37214. LOCATION OF WELL

Footages **515 FSL 517 FWL**

QQ, SEC. T, R, M: **SW/SW Section 21, T8S R17E**

5. LEASE DESIGNATION AND SERIAL NO.

UTU-76954

6. IF INDIAN, ALLOTTEE OR TRIBAL NAME

N/A

7. UNIT AGREEMENT NAME

GREATER BOUNDARY

8. WELL NAME and NUMBER

BOUNDARY FED 13-21

9. API NUMBER

43-013-30665

10. FIELD AND POOL, OR WILDCAT

MONUMENT BUTTECOUNTY **DUCHESNE**STATE **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

NOTICE OF INTENT:

(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> ABANDON | <input type="checkbox"/> NEW CONSTRUCTION |
| <input type="checkbox"/> REPAIR CASING | <input type="checkbox"/> PULL OR ALTER CASING |
| <input type="checkbox"/> CHANGE OF PLANS | <input type="checkbox"/> RECOMPLETE |
| <input type="checkbox"/> CONVERT TO INJECTION | <input type="checkbox"/> REPERFORATE |
| <input type="checkbox"/> FRACTURE TREAT OR ACIDIZE | <input type="checkbox"/> VENT OR FLARE |
| <input type="checkbox"/> MULTIPLE COMPLETION | <input type="checkbox"/> WATER SHUT OFF |
| <input type="checkbox"/> OTHER _____ | |

SUBSEQUENT REPORT OF:

(Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> ABANDON* | <input type="checkbox"/> NEW CONSTRUCTION |
| <input type="checkbox"/> REPAIR CASING | <input type="checkbox"/> PULL OR ALTER CASING |
| <input type="checkbox"/> CHANGE OF PLANS | <input type="checkbox"/> RECOMPLETE |
| <input type="checkbox"/> CONVERT TO INJECTION | <input type="checkbox"/> REPERFORATE |
| <input type="checkbox"/> FRACTURE TREAT OR ACIDIZE | <input type="checkbox"/> VENT OR FLARE |
| <input checked="" type="checkbox"/> OTHER Step Rate Test | |

DATE WORK COMPLETED _____

Report results of Multiple Completion and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

*Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depth for all markers and zones pertinent to this work.)

A step rate test was conducted on the subject well on 10/30/03. Results from the test indicate that the fracture gradient is .626 psi/ft. Therefore, Inland is requesting that the maximum allowable injection pressure (MAIP) be changed to 1000 psi.

13.

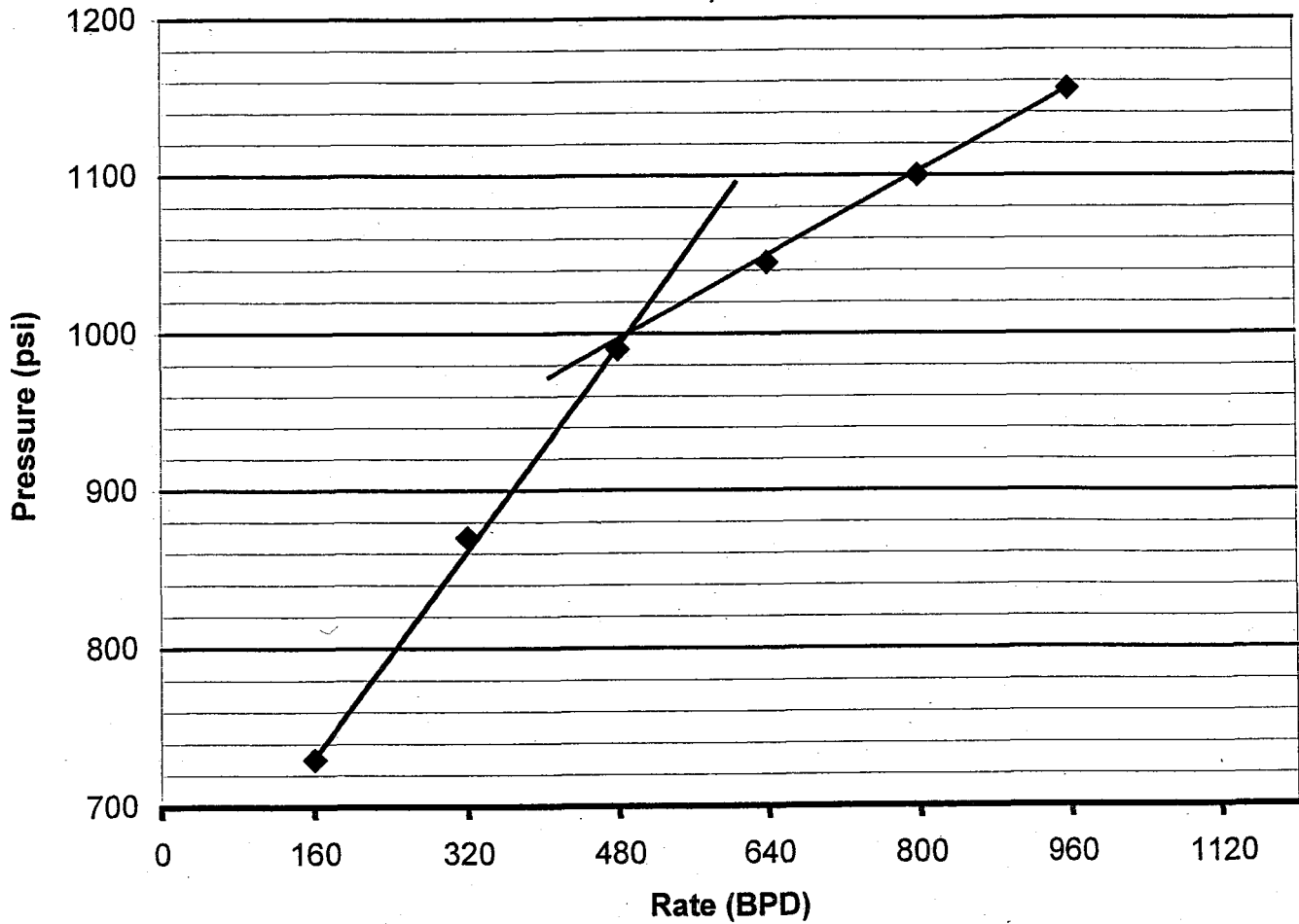
NAME & SIGNATURE: Michael Guinn TITLE Vice President of OperationsDATE 11/3/2003

(This space for State use only)

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

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NOV 04 2003
DIV. OF OIL, GAS & MINING

Boundary Federal 13-21-8-17
Greater Boundary Unit
Step Rate Test
October 30, 2003



Start Pressure: 520 psi
Instantaneous Shut In Pressure (ISIP): 1120 psi
Top Perforation: 5232 feet
Fracture pressure (Pfp): 1000 psi
FG: 0.626 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	40	570
2	80	640
3	160	730
4	320	870
5	480	990
6	640	1045
7	800	1100
8	960	1155

BOUNDARY FEDERAL
13-21-8-17

4:45/

10/30 03

1:45/p

10/30 03

88 May
Kumar



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
Phone 800-227-8917
<http://www.epa.gov/region08>

JAN 6 2004

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Michael Guinn
Vice President - Operations
Inland Production Company
Route 3 - Box 3630
Myton, UT 84052

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RE: UNDERGROUND INJECTION CONTROL (UIC)
APPROVAL TO INCREASE MAXIMUM
SURFACE INJECTION PRESSURE
EPA Permit No. UT20702-03768
Boundary Federal No. 13-21-8-17
SW SW Sec. 21 - T8S - R17E
Duchesne County, Utah

Dear Mr. Guinn:

The Environmental Protection Agency (EPA) Boundary Area Permit UT20702-00000 (Effective February 8, 1994), Part II, Section C.4. (b), permits the "Director" to authorize, by letter, an increase in the maximum surface injection pressure (MIP) for the Boundary Federal No. 13-21-8-17 following receipt and approval of a valid Step-Rate Test (SRT).

On November 3, 2003, Inland Production Company (Inland) submitted an SRT, dated October 30, 2003, which was received by the EPA on November 5, 2003. The EPA approved a fracture gradient of 0.625 psi/ft for the Garden Gulch/Douglas Creek/Basal Carbonate Members of the Green River Formation injection interval.

As of the date of this letter, the EPA authorizes an increase in the maximum surface injection pressure (MIP) from 925 psig to 1000 psig.

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JAN 09 2004



DIV. OF OIL, GAS & MINING
Printed on Recycled Paper

FG = 0.625 psi/ft
 D = 5262 feet: Top perforation
 SG = Specific gravity: 1.005

 MIP = $[(0.625) - (0.433)(1.005)] 5262$

 MIP = 1000 psig.

Please send all compliance correspondence relative to this well to the **ATTENTION: NATHAN WISER**, at the letterhead address, citing **MAIL CODE: 8ENF-T** very prominently. You may call Mr. Wiser at 303-312-6211, or 1-800-227-8917 (Ext. 6211).

Sincerely,

Carol L. Campbell for

Stephen S. Tuber
 Assistant Regional Administrator
 Office of Partnerships and
 Regulatory Assistance

cc: Ms. Maxine Natchees
 Chairwoman
 Uintah & Ouray Business Council
 Ute Indian Tribe
 P.O. Box 190
 Fort Duchesne, Ut 84026

Ms. Elaine Willie
 Environmental Coordinator
 Ute Indian Tribe
 P.O. Box 460
 Fort Duchesne, UT 84026

Mr. Chester Mills
 Superintendent
 Bureau of Indian Affairs
 Uintah & Ouray Indian Agency
 P.O. Box 130
 Fort Duchesne, UT 84026

Mr. David Gerbig
 Operations Engineer
 Inland Production Company
 1401 Seventeenth Street - Suite 1000
 Denver, CO 80202

Mr. Gil Hunt
Technical Services Manager
State of Utah - Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple - Suite 1220
Salt Lake City, UT 84111-00581

Mr. Jerry Kenczka
Petroleum Engineer
Bureau of Land Management
Vernal District
170 South 500 East
Vernal, UT 84078

Mr. Nathan Wiser
8ENF-T



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
<http://www.blm.gov>



IN REPLY REFER TO:
3106
(UT-924)

September 16, 2004

Memorandum

To: Vernal Field Office

From: Acting Chief, Branch of Fluid Minerals

Subject: Merger Approval

Attached is an approved copy of the name change recognized by the Utah State Office. We have updated our records to reflect the merger from Inland Production Company into Newfield Production Company on September 2, 2004.

Michael Coulthard
Acting Chief, Branch of
Fluid Minerals

Enclosure

1. State of Texas Certificate of Registration

cc: MMS, Reference Data Branch, James Sykes, PO Box 25165, Denver CO 80225
State of Utah, DOGM, Attn: Earlene Russell, PO Box 145801, SLC UT 84114
Teresa Thompson
Joe Incardine
Connie Seare

UTSL-	15855	61052	73088	76561	
071572A	16535	62848	73089	76787	
065914	16539	63073B	73520A	76808	
	16544	63073D	74108	76813	
	17036	63073E	74805	76954	63073X
	17424	63073O	74806	76956	63098A
	18048	64917	74807	77233	68528A
UTU-	18399	64379	74808	77234	72086A
	19267	64380	74389	77235	72613A
02458	26026A	64381	74390	77337	73520X
03563	30096	64805	74391	77338	74477X
03563A	30103	64806	74392	77339	75023X
04493	31260	64917	74393	77357	76189X
05843	33992	65207	74398	77359	76331X
07978	34173	65210	74399	77365	76788X
09803	34346	65635	74400	77369	77098X
017439B	36442	65967	74404	77370	77107X
017985	36846	65969	74405	77546	77236X
017991	38411	65970	74406	77553	77376X
017992	38428	66184	74411	77554	78560X
018073	38429	66185	74805	78022	79485X
019222	38431	66191	74806	79013	79641X
020252	39713	67168	74826	79014	80207X
020252A	39714	67170	74827	79015	81307X
020254	40026	67208	74835	79016	
020255	40652	67549	74868	79017	
020309D	40894	67586	74869	79831	
022684A	41377	67845	74870	79832	
027345	44210	68105	74872	79833	
034217A	44426	68548	74970	79831	
035521	44430	68618	75036	79834	
035521A	45431	69060	75037	80450	
038797	47171	69061	75038	80915	
058149	49092	69744	75039	81000	
063597A	49430	70821	75075		
075174	49950	72103	75078		
096547	50376	72104	75089		
096550	50385	72105	75090		
	50376	72106	75234		
	50750	72107	75238		
10760	51081	72108	76239		
11385	52013	73086	76240		
13905	52018	73087	76241		
15392	58546	73807	76560		



Office of the Secretary of State

The undersigned, as Secretary of State of Texas, does hereby certify that the attached is a true and correct copy of each document on file in this office as described below:

Newfield Production Company
Filing Number: 41530400

Articles of Amendment

September 02, 2004

In testimony whereof, I have hereunto signed my name officially and caused to be impressed hereon the Seal of State at my office in Austin, Texas on September 10, 2004.



A handwritten signature in black ink, appearing to read "G. Connor".

Secretary of State

ARTICLES OF AMENDMENT
TO THE
ARTICLES OF INCORPORATION
OF
INLAND PRODUCTION COMPANY

FILED
In the Office of the
Secretary of State of Texas

SEP 02 2004
Corporations Section

Pursuant to the provisions of Article 4.04 of the Texas Business Corporation Act (the "TBCA"), the undersigned corporation adopts the following articles of amendment to the articles of incorporation:

ARTICLE 1 – Name

The name of the corporation is Inland Production Company.

ARTICLE 2 – Amended Name

The following amendment to the Articles of Incorporation was approved by the Board of Directors and adopted by the shareholders of the corporation on August 27, 2004.

The amendment alters or changes Article One of the Articles of Incorporation to change the name of the corporation so that, as amended, Article One shall read in its entirety as follows:

"ARTICLE ONE – The name of the corporation is Newfield Production Company."

ARTICLE 3 – Effective Date of Filing

This document will become effective upon filing.

The holder of all of the shares outstanding and entitled to vote on said amendment has signed a consent in writing pursuant to Article 9.10 of the TBCA, adopting said amendment, and any written notice required has been given.

IN WITNESS WHEREOF, the undersigned corporation has executed these Articles of Amendment as of the 1st day of September, 2004.

INLAND RESOURCES INC.

By: Susan G. Riggs
Susan G. Riggs, Treasurer

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See Attached List		API Number
Location of Well Footage : County : QQ, Section, Township, Range: State : UTAH		Field or Unit Name See Attached List Lease Designation and Number

EFFECTIVE DATE OF TRANSFER: 9/1/2004

CURRENT OPERATOR

Company: Inland Production Company
Address: 1401 17th Street Suite 1000
city Denver state Co zip 80202
Phone: (303) 893-0102
Comments:

Name: Brian Harris
Signature: *Brian Harris*
Title: Engineering Tech.
Date: 9/15/2004

NEW OPERATOR

Company: Newfield Production Company
Address: 1401 17th Street Suite 1000
city Denver state Co zip 80202
Phone: _____
Comments:

Name: Brian Harris
Signature: *Brian Harris*
Title: Engineering Tech.
Date: 9/15/2004

(This space for State use only)

Transfer approved by: *A. Hunt*Title: *Perk Services Manager*Approval Date: *9-20-04*

Comments:

*Note: Indian Country wells will require EPA approval.*RECEIVED
SEP 20 2004

DIV. OF OIL, GAS & MINING

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change**Merger**

The operator of the well(s) listed below has changed, effective:

9/1/2004

FROM: (Old Operator):
 N5160-Inland Production Company
 Route 3 Box 3630
 Myton, UT 84052
 Phone: 1-(435) 646-3721

TO: (New Operator):
 N2695-Newfield Production Company
 Route 3 Box 3630
 Myton, UT 84052
 Phone: 1-(435) 646-3721

CA No.

Unit:

GREATER BOUNDARY (GR)

WELL(S)

NAME	SEC TWN RNG			API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
BOUNDARY FED 15-20	20	080S	170E	4301330667	12391	Federal	WI	A
BOUNDARY FED 9-20	20	080S	170E	4301330690	12391	Federal	WI	A
BOUNDARY FED 7-20	20	080S	170E	4301330750	12391	Federal	WI	A
BOUNDARY FED 6-20	20	080S	170E	4301331626	12391	Federal	OW	S
BOUNDARY FED 13-21	21	080S	170E	4301330665	12391	Federal	WI	A
BOUNDARY FED 11-21	21	080S	170E	4301330752	12391	Federal	WI	A
BOUNDARY FED 5-21	21	080S	170E	4301330822	12391	Federal	WI	A
BOUNDARY FED 12-21	21	080S	170E	4301331440	12391	Federal	OW	S
BOUNDARY FED 14-21	21	080S	170E	4301331441	12391	Federal	OW	P
BOUNDARY FED 10-21	21	080S	170E	4301331532	12391	Federal	OW	P
BOUNDARY FED 9-21	21	080S	170E	4301331542	12391	Federal	WI	A
BOUNDARY 8-21	21	080S	170E	4301331557	12391	Fee	OW	P
BOUNDARY FED 15-21	21	080S	170E	4301331622	12391	Federal	WI	A
BOUNDARY FED 16-21	21	080S	170E	4301331627	12391	Federal	OW	P
BOUNDARY 7-21	21	080S	170E	4301331640	12391	Fee	WI	A
TAR SANDS FED 3-28	28	080S	170E	4301331623	12391	Federal	WI	A
TAR SANDS FED 4-28	28	080S	170E	4301331641	12391	Federal	OW	P
TAR SANDS FED 2-28	28	080S	170E	4301331642	12391	Federal	OW	S
TAR SANDS FED 5-28 (I)	28	080S	170E	4301331697	12391	Federal	WI	A
GB FED 7-29R-8-17	29	080S	170E	4301330435		Federal	D	PA

K

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 9/15/2004
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 9/15/2004

3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/2005
4. Is the new operator registered in the State of Utah: YES Business Number: 755627-0143
5. If **NO**, the operator was contacted on:

6a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
6b. Inspections of LA PA state/fee well sites complete on: waived

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: na/

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 2/23/2005

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database** on: 2/28/2005
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/28/2005
3. Bond information entered in RBDMS on: 2/28/2005
4. Fee/State wells attached to bond in RBDMS on: 2/28/2005
5. Injection Projects to new operator in RBDMS on: 2/28/2005
6. Receipt of Acceptance of Drilling Procedures for APD/New on: waived

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: UT 0056

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: 61BSBDH2912

FEE & STATE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number 61BSBDH2919
2. The **FORMER** operator has requested a release of liability from their bond on: n/a*
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

*Bond rider changed operator name from Inland Production Company to Newfield Production Company - received 2/23/05

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU76954

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER ☐ Injection well

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
GREATER BOUNDARY II

8. WELL NAME and NUMBER:
BOUNDARY FED 13-21

2. NAME OF OPERATOR:
Newfield Production Company

9. API NUMBER:
4301330665

3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052 PHONE NUMBER 435.646.3721

10. FIELD AND POOL, OR WILDCAT:
Monument Butte

4. LOCATION OF WELL:

FOOTAGES AT SURFACE: 0515 FSL 0517 FWL

COUNTY: Duchesne

OTR/OTR. SECTION, TOWNSHIP, RANGE, MERIDIAN: SW/SW, 21, T8S, R17E

STATE: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF ACTION SubDate

TYPE OF SUBMISSION

TYPE OF ACTION

☐ NOTICE OF INTENT
(Submit in Duplicate)

Approximate date work will

☒ SUBSEQUENT REPORT
(Submit Original Form Only)

Date of Work Completion:

07/21/2005

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/STOP)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLAIR

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☒ OTHER: - Step Rate Test

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A step rate test was conducted on the subject well on June 21, 2005. Results from the test indicate that the fracture gradient is .642 psi/ft. Therefore, Newfield is requesting that the maximum allowable injection pressure (MAIP) be changed to 1080 psi.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED

JUL 26 2005

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Mike Guinn

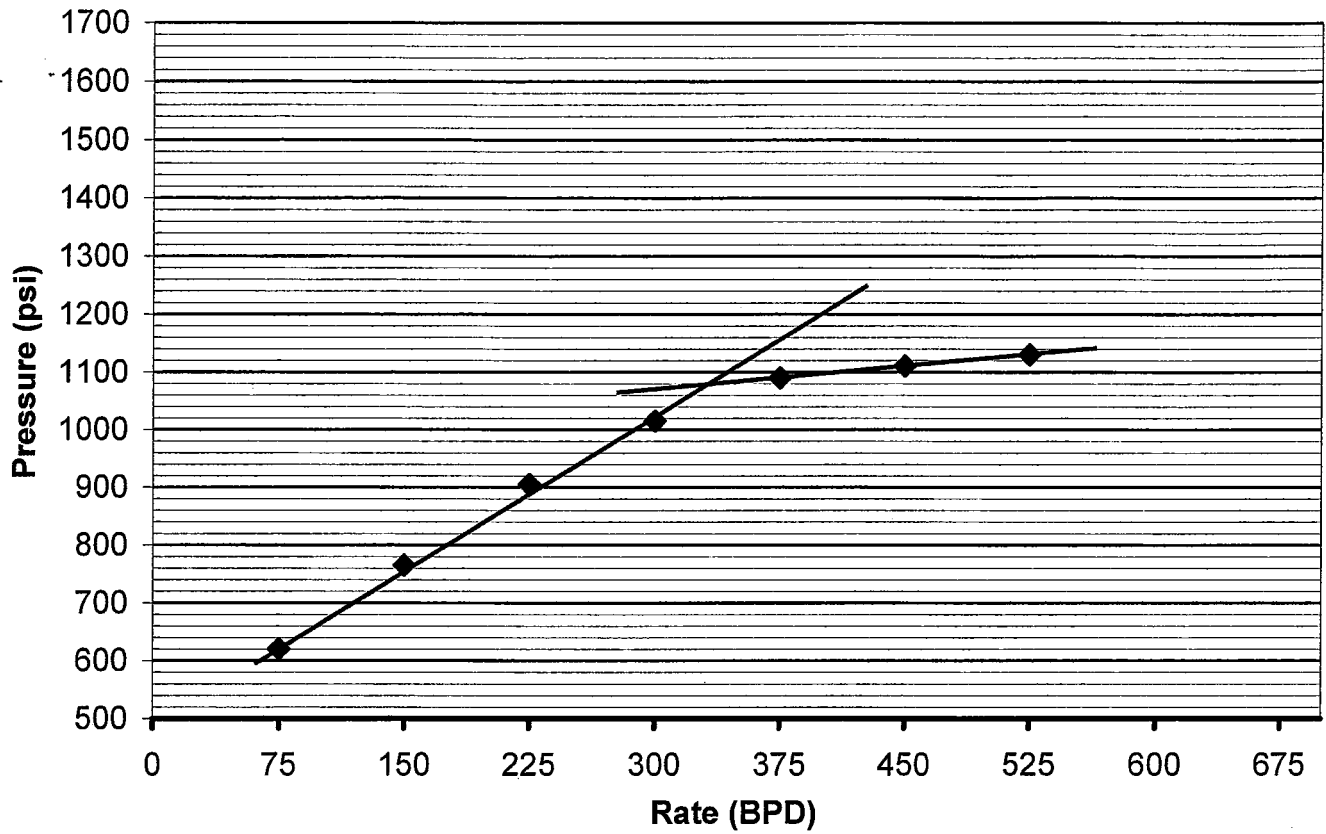
TITLE Engineer

SIGNATURE

DATE 07/21/2005

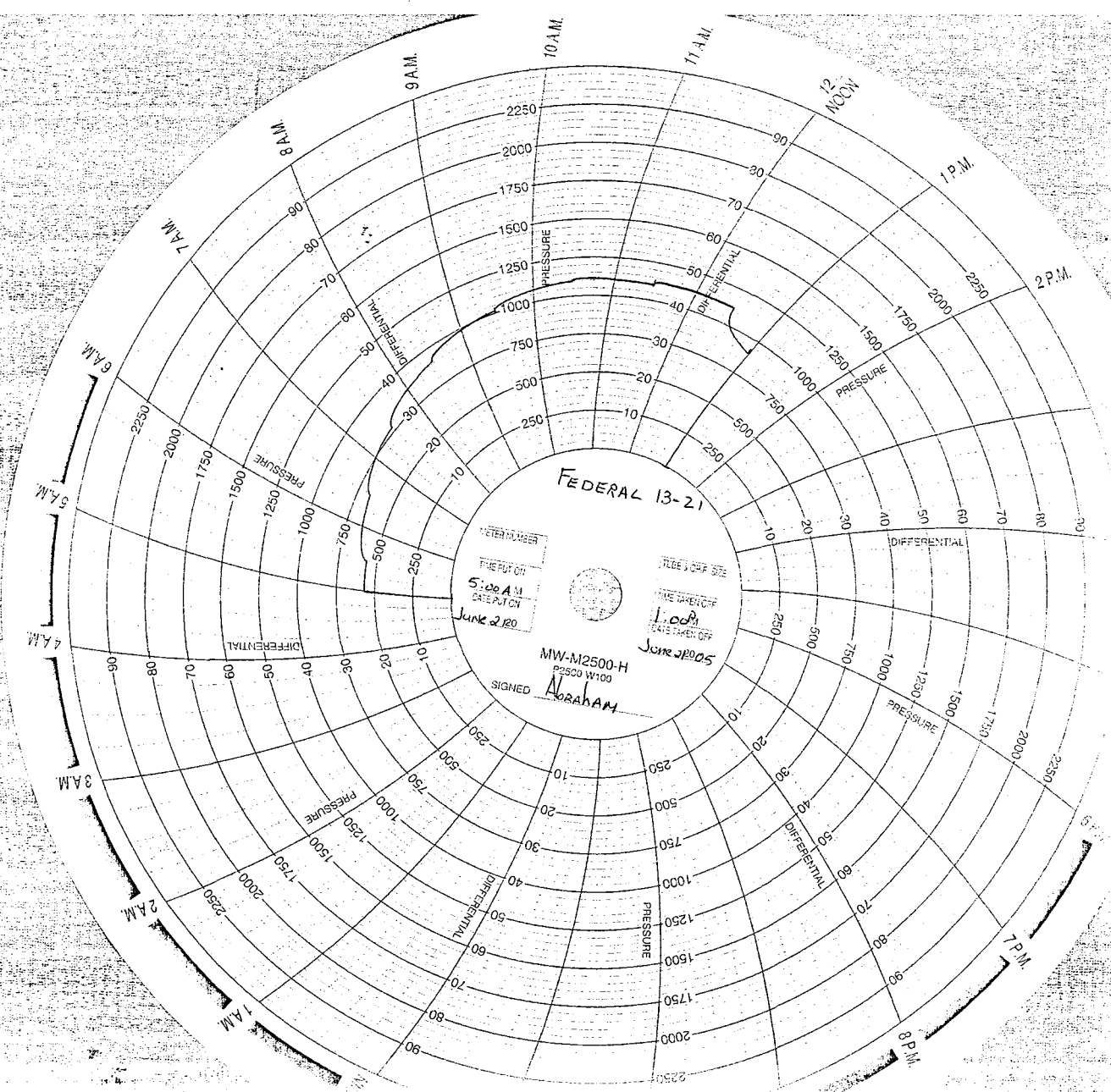
(This space for State use only)

Federal 13-21
Greater Boundry
Step Rate Test
June 21, 2005



Start Pressure: 570 psi
Instantaneous Shut In Pressure (ISIP): 1085 psi
Top Perforation: 5232 feet
Fracture pressure (Pfp): 1080 psi
FG: 0.642 psi/ft

Step	Rate(bpd)	Pressure(psi)
1	75	620
2	150	765
3	225	905
4	300	1015
5	375	1090
6	450	1110
7	525	1130



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER:
USA UTU-76954

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME: GREATER BOUNDARY II
3. ADDRESS OF OPERATOR: Route 3 Box 3630 CITY Myton STATE UT ZIP 84052		8. WELL NAME and NUMBER: BOUNDARY FED 13-21
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 515 FSL 517 FWL		9. API NUMBER: 4301330665
OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: SWSW, 21, T8S, R17E		10. FIELD AND POOL, OR WILDCAT: MONUMENT BUTTE
		COUNTY: DUCHESNE
		STATE: UT

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

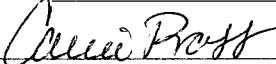
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARITLY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of Work Completion: 07/28/2008	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/STOP)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: - 5 Year MIT.
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 7/7/08 Nathan Wiser with the EPA was contacted concerning the 5 year MIT on the above listed well. Permission was given at that time to perform the test on 7/28/08. On 7/28/08 the csg was pressured up to 1400 psig and charted for 30 minutes with no pressure loss. The well was injecting during the test. The tbq pressure was 1000 psig during the test. There was not an EPA representative available to witness the test.

EPA# UT 20702-03768 API# 43-013-30665

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY**

NAME (PLEASE PRINT) Callie Duncan	TITLE Production Clerk
SIGNATURE 	DATE 08/05/2008

(This space for State use only)

RECEIVED
AUG 11 2008
DIV. OF OIL, GAS & MINING

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: 07/28/08
Test conducted by: Dale Giles
Others present: _____

Well Name: <u>Boundary Fed. 13-21-8-17</u>		Type: ER SWD	Status: AC TA UC
Field: <u>Greater Boundary Unit</u>			
Location: _____	Sec: <u>21</u> T <u>8</u> N <u>10</u> R <u>17</u> E W	County: <u>Duchesne</u>	State: <u>Ut</u>
Operator: <u>Newfield Production Co.</u>			
Last MIT: <u>1</u> / <u>1</u>	Maximum Allowable Pressure: <u>1080</u>		PSIG

Is this a regularly scheduled test? ☒ Yes ☐ No
Initial test for permit? ☐ Yes ☐ No
Test after well rework? ☐ Yes ☐ No
Well injecting during test? ☒ Yes ☐ No If Yes, rate: 68 bpd

Pre-test casing/tubing annulus pressure: 0 psig

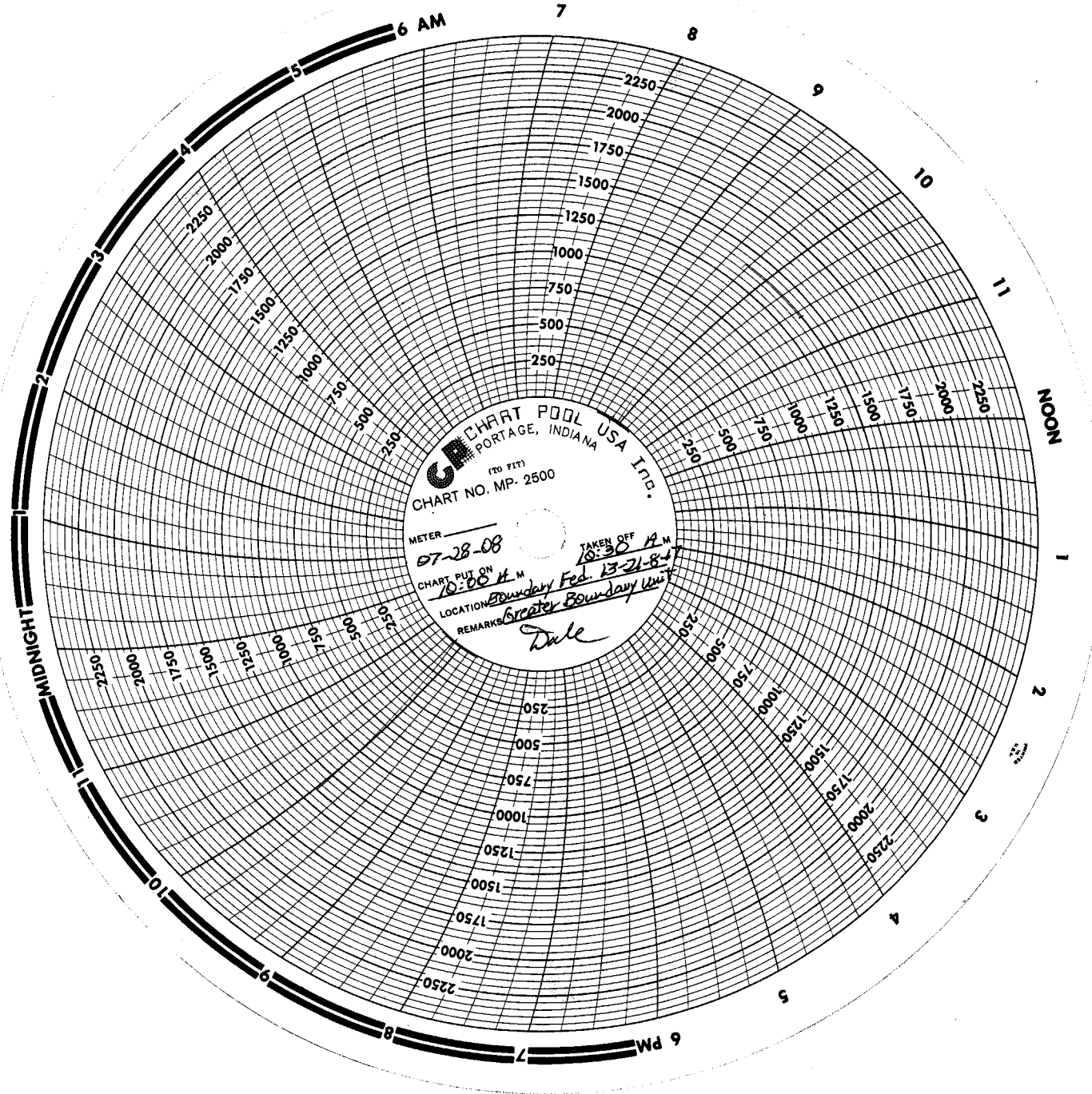
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE		
Initial Pressure	<u>1000</u> psig	psig	psig
End of test pressure	<u>1000</u> psig	psig	psig
CASING / TUBING	ANNULUS PRESSURE		
0 minutes	<u>1400</u> psig	psig	psig
5 minutes	<u>1400</u> psig	psig	psig
10 minutes	<u>1400</u> psig	psig	psig
15 minutes	<u>1400</u> psig	psig	psig
20 minutes	<u>1400</u> psig	psig	psig
25 minutes	<u>1400</u> psig	psig	psig
30 minutes	<u>1400</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☒ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-50376
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: GMBU (GRRV)
1. TYPE OF WELL Water Injection Well		8. WELL NAME and NUMBER: BOUNDARY FED 13-21
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		9. API NUMBER: 43013306650000
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052		9. FIELD and POOL or WILDCAT: MONUMENT BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0515 FSL 0517 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 21 Township: 08.0S Range: 17.0E Meridian: S		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Workover MIT"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/8/2013			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The above subject well had workover procedures performed (tubing leak), attached is a daily status report. Workover MIT performed on the above listed well. On 10/08/2013 the csg was pressured up to 1500 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 400 psig during the test. There was not an EPA representative available to witness the test.

EPA #UT22197-03768

**Accepted by the
Utah Division of
Oil, Gas and Mining**
FOR RECORD ONLY
 October 24, 2013

NAME (PLEASE PRINT) Lucy Chavez-Naupoto	PHONE NUMBER 435 646-4874	TITLE Water Services Technician
SIGNATURE N/A		DATE 10/10/2013

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____

Date: 10/8/2013Test conducted by: Dustin Bennett

Others present: _____

Well Name: <u>Boundary 13-21-8-17</u>	Type: ER SWD	Status: AC TA UC
Field: <u>Monument Butte</u>		
Location: <u>SW/4</u> Sec: <u>21</u> T: <u>8</u> N: <u>10</u> R: <u>17</u> E/W	County: <u>Duchesne</u>	State: <u>UT</u>
Operator: <u>Mutfield Exploration</u>		
Last MIT: <u>1</u>	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test?

☒ Yes☐ No

Initial test for permit?

☐ Yes☒ No

Test after well rework?

☒ Yes☐ No

Well injecting during test?

☐ Yes☒ No

If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: _____ psig

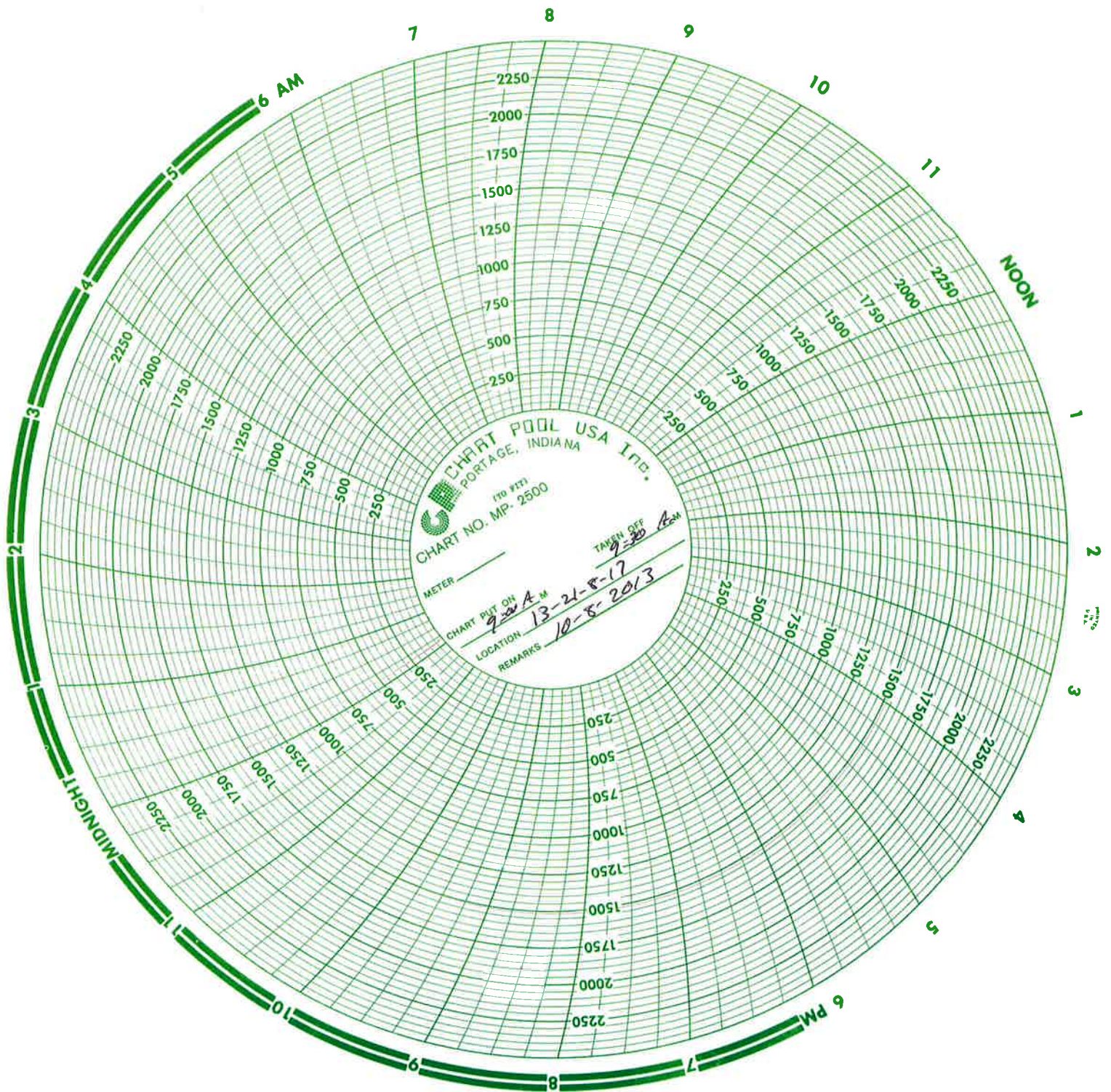
MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING	PRESSURE		
Initial Pressure	<u>400</u> psig	psig	psig
End of test pressure	<u>400</u> psig	psig	psig
CASING / TUBING	ANNULUS	PRESSURE	
0 minutes	<u>1500</u> psig	psig	psig
5 minutes	<u>1500</u> psig	psig	psig
10 minutes	<u>1500</u> psig	psig	psig
15 minutes	<u>1500</u> psig	psig	psig
20 minutes	<u>1500</u> psig	psig	psig
25 minutes	<u>1500</u> psig	psig	psig
30 minutes	<u>1500</u> psig	psig	psig
_____ minutes	psig	psig	psig
_____ minutes	psig	psig	psig
RESULT	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? ☐ Yes ☐ No

MECHANICAL INTEGRITY PRESSURE TEST

Additional comments for mechanical integrity pressure test, such as volume of fluid added to annulus and bled back at end of test, reason for failing test (casing head leak, tubing leak, other), etc.:

Signature of Witness: _____



Daily Activity Report

Format For Sundry

BOUNDARY 13-21-8-17

7/1/2013 To 11/30/2013

7/22/2013 Day: 1

Major Workover

NC #3 on 7/22/2013 - MIRU NC#3, N/D W/H-D, Bolts Rusted In & Hard To Get Out. - 3:00PM-4:00PM Rig Move, 4:00PM MIRU NC#3, R/U Tbg Eqp, N/D W/H-D, W/H-D Bolts Rusted On, Work To Remove, Remove All But 4, Replace Others & SWI, 6:30PM CSDFN, 6:30PM-7:00PM C/Tvl

Daily Cost: \$0

Cumulative Cost: \$3,211

7/24/2013 Day: 3

Major Workover

NC #3 on 7/24/2013 - Push S/Vlve W/ S/Lne, Stick S/Lne, Pull Out Of Rop Socket, TOO H W/ Tbg, L/D Pkr, P/U New & TIH, Psr Tst Tbg. - 5:30PM-6:00PM C/Tvl, 6:00PM OWU, Pmp 30BW Down Tbg, Drop S/Vlve, Pmp 30BW, S/Vlve Did Not Seat, R/U S/Lne, P/U & RIH, Push S/Vlve To S/N, Wt Bar Stuck In Hole, Pmp 30BW Down Csg @ 1500psi, Try To Work S/Lne Up & Down W/ No Luck, Work S/Lne Untill Parted Above Rop Socket, POOH W/ S/Lne, R/U H/Oiler To Tbg & Psr Tst To 3500psi(Good Tst), R/U Tbg Eqp, TOO H W/ 151jts Tbg, S/Vlve & Wt Bar Stuck In S/N & Btm Jt Of Tbg, L/D Btm Jt W/ Wt Bar Struck In It, L/D Pkr, Pkr C/E Worn Badly, P/U New X/N Nipple, 4' 3/8 Tbg Sub, X/O, Weatherford 5 1/2 Arrow Set Pkr, On/Off Tool, X Nipple, S/N & 151jts Tbg, Btm Jt New B Grd J-55 Tbg, Pmp 15BW, Drop S/Vlve, Pmp 30BW, S/Vlve Did Not Seat, Cut Wt Bar Out Of Jt Of Tbg, Pore New Rope Socket, R/U S/Lne, Push S/Vlve To S/N, Psr Up To 500psi W/ H/Oiler, POOH W/ S/Lne, R/U Isolation Tool, Psr Tst Tbg To 3000psi, SWI, 7:00PM CSDFN, 7:00PM-7:30PM C/Tvl - 5:30PM-6:00PM C/Tvl, 6:00PM OWU, Pmp 30BW Down Tbg, Drop S/Vlve, Pmp 30BW, S/Vlve Did Not Seat, R/U S/Lne, P/U & RIH, Push S/Vlve To S/N, Wt Bar Stuck In Hole, Pmp 30BW Down Csg @ 1500psi, Try To Work S/Lne Up & Down W/ No Luck, Work S/Lne Untill Parted Above Rop Socket, POOH W/ S/Lne, R/U H/Oiler To Tbg & Psr Tst To 3500psi(Good Tst), R/U Tbg Eqp, TOO H W/ 151jts Tbg, S/Vlve & Wt Bar Stuck In S/N & Btm Jt Of Tbg, L/D Btm Jt W/ Wt Bar Struck In It, L/D Pkr, Pkr C/E Worn Badly, P/U New X/N Nipple, 4' 3/8 Tbg Sub, X/O, Weatherford 5 1/2 Arrow Set Pkr, On/Off Tool, X Nipple, S/N & 151jts Tbg, Btm Jt New B Grd J-55 Tbg, Pmp 15BW, Drop S/Vlve, Pmp 30BW, S/Vlve Did Not Seat, Cut Wt Bar Out Of Jt Of Tbg, Pore New Rope Socket, R/U S/Lne, Push S/Vlve To S/N, Psr Up To 500psi W/ H/Oiler, POOH W/ S/Lne, R/U Isolation Tool, Psr Tst Tbg To 3000psi, SWI, 7:00PM CSDFN, 7:00PM-7:30PM C/Tvl - 5:30PM-6:00PM C/Tvl, 6:00PM OWU, Well Flowing Out Csg & Tbg, N/D W/H-D, N/U BOPs, R/U Rig Flr, R/U Tbg Eqp, Work Tbg, Tbg Was Sliding About 2' In Either Dirction, Release Pkr, Flush W/ 65BW, Drop S/Vlve, Pmp 30BW To Push To Seat W/ No Luck, R/U S/Lne, P/U & RIH, S/Vlve Stuck @ 200', Could Not Push Past, POOH, R/U Baby Red To Fish S/Vlve, P/U & RIH, Fish S/Vlve, R/U W/ Drift To Work Drift Through Tbg, RIH, Could Not Get Past 200', POOH & L/D, TOO H, Drop Rabbit Down Each Stand Of Tbg, Got Stuck In Stand 4, Hit W/ Hammers & Nock Scail & Rabbit Out Of Tbg, P/U S/Lne & Try To Drift Tbg In Hole W/ No Luck, TIH W/ Tbg, Wait On 5bbls 15% KCL, KCL Came, R/U Multi Chem To Tbg, Wait On Hot Oiler, Pmp 4 Gal KCL & Tbg Psr Up To 500psi, R/D Multi Chem, R/U BMW H/Oiler, Pmp 15BW @ 1200psi, R/U To Csg, Pmp 20BW @ 3BPM @ 500psi, R/U Multi Chem To Tbg, Pmp 5BBLs KCL & 1bbl H2O, R/D Multi Chem, R/U H/Oiler To Tbg, Displace KCL W/ 20BW, SWI, 7:30PM CSDFN, 7:30PM-8:00PM C/Tvl. - 5:30PM-6:00PM C/Tvl, 6:00PM OWU, Well Flowing Out Csg & Tbg, N/D W/H-D, N/U BOPs, R/U Rig Flr, R/U Tbg Eqp, Work Tbg, Tbg Was Sliding About 2' In Either Dirction, Release Pkr, Flush W/ 65BW, Drop S/Vlve, Pmp 30BW To Push To Seat W/ No Luck, R/U S/Lne, P/U & RIH, S/Vlve Stuck @ 200', Could Not Push Past, POOH, R/U Baby Red To Fish S/Vlve, P/U & RIH, Fish S/Vlve, R/U W/ Drift To Work Drift Through Tbg, RIH, Could Not Get Past 200', POOH &

L/D, TOOH, Drop Rabbit Down Each Stand Of Tbg, Got Stuck In Stand 4, Hit W/ Hammers & Nock Scail & Rabbit Out Of Tbg, P/U S/Lne & Try To Drift Tbg In Hole W/ No Luck, TIH W/ Tbg, Wait On 5bbls 15% KCL, KCL Came, R/U Multi Chem To Tbg, Wait On Hot Oiler, Pmp 4 Gal KCL & Tbg Psr Up To 500psi, R/D Multi Chem, R/U BMW H/Oiler, Pmp 15BW @ 1200psi, R/U To Csg, Pmp 20BW @ 3BPM @ 500psi, R/U Multi Chem To Tbg, Pmp 5BBLs KCL & 1bbl H2O, R/D Multi Chem, R/U H/Oiler To Tbg, Displace KCL W/ 20BW, SWI, 7:30PM CSDFN, 7:30PM-8:00PM C/Tvl.

Daily Cost: \$0

Cumulative Cost: \$23,443

7/25/2013 Day: 4

Major Workover

NC #3 on 7/25/2013 - Psr Tst Tbg, Fish S/Vlve, N/D BOPs, N/U W/H-D, Pmp Pkr Fluid, Find Injection Rate, RDMO NC#3. - 5:30AM-6:00AM C/Tvl, 6:00AM Tbg Psr @ 2850psi(Good Tst), Bleed Psr Off, R/U S/Lne W/ Fishing Tool, RIH & Fish S/Vlve, L/D & R/D S/Lne, P/U 10' Tbg Sub, R/D Tbg Eqp, R/D Rig Flr, N/D BOPs, N/U W/H-D, Pmp 70BW W/ Pkr Fluid, N/D W/H-D, Set Pkr In 17K# Tension, L/D 10' Tbg Sub, N/U W/H-D, Prs Tst Csg, Pmp Up To 1500psi, Bled Off To 1000psi In 22sec, Bled Off To 500psi In 3 Min, Pump Up 6 More Times W/ Same Results, Try To Pmp Up To 1700psi, Would Not Go Pst 1500psi, Injecting @ 1/2bpm @ 1500psi, Wait On Orders, Want To Wait On Sprinklers Before Repairing Injection Well. RDMO NC#3 @ 2:00PM Wait On Sprinklers Before Repairing Well. Final Report.

Daily Cost: \$0

Cumulative Cost: \$40,058

10/2/2013 Day: 5

Major Workover

NC #1 on 10/2/2013 - waiting on tack, and waiting water bleed down tbg & 40 ppm as flow back - 5:30 AM To 6:00AM c/ travl: SITP 20psi SICP 20psi, OWU, POOH & LD PKR, MU & RIH w/ PLG Retrivers to 1960', Released RBP (no pressure under plg), POOH & Set RBP @ 1100', POOH, MU & RIH w/ RH Set PKR @ 1085', RU H/Oiler to Tbg, Hole remaining full, PT RBP to 1500psi for 5min, NO Pressure Loss, POOH & LD PKR, Moved RBP to 904', POOH w/ tbg, TIH open ended to 858' (12' above top Perf), RU Halliburton Pumping Equip, PT hardlines to 3000psi, Pumped 50 sacks (10.2bbls) of class-G cement @ pmp rate of 1/2BPM @ 1200psi, POOH w/ tbg, RU pump truck to csg PT to 1985psi, 442psi loss, 24.55ppm in 18min, Repressured to 2100psi, 585psi loss, 39ppm in 15min, Repressured to 2043psi, 438psi loss, 29.2ppm in 15min, Repressured to 2060psi, 361psi loss, 24.06ppm in 15min, Repressured to 2001psi, SWIFN, 8:00pm to 8:30PM c/travl - 5:30 AM To 6:00AM c/ travl: SITP 20psi SICP 20psi, OWU, POOH & LD PKR, MU & RIH w/ PLG Retrivers to 1960', Released RBP (no pressure under plg), POOH & Set RBP @ 1100', POOH, MU & RIH w/ RH Set PKR @ 1085', RU H/Oiler to Tbg, Hole remaining full, PT RBP to 1500psi for 5min, NO Pressure Loss, POOH & LD PKR, Moved RBP to 904', POOH w/ tbg, TIH open ended to 858' (12' above top Perf), RU Halliburton Pumping Equip, PT hardlines to 3000psi, Pumped 50 sacks (10.2bbls) of class-G cement @ pmp rate of 1/2BPM @ 1200psi, POOH w/ tbg, RU pump truck to csg PT to 1985psi, 442psi loss, 24.55ppm in 18min, Repressured to 2100psi, 585psi loss, 39ppm in 15min, Repressured to 2043psi, 438psi loss, 29.2ppm in 15min, Repressured to 2060psi, 361psi loss, 24.06ppm in 15min, Repressured to 2001psi, SWIFN, 8:00pm to 8:30PM c/travl - 5:30 AM To 6:00AM c/ travl: SITP 20psi SICP 20psi, OWU, POOH & LD PKR, MU & RIH w/ PLG Retrivers to 1960', Released RBP (no pressure under plg), POOH & Set RBP @ 1100', POOH, MU & RIH w/ RH Set PKR @ 1085', RU H/Oiler to Tbg, Hole remaining full, PT RBP to 1500psi for 5min, NO Pressure Loss, POOH & LD PKR, Moved RBP to 904', POOH w/ tbg, TIH open ended to 858' (12' above top Perf), RU Halliburton Pumping Equip, PT hardlines to 3000psi, Pumped 50 sacks (10.2bbls) of class-G cement @ pmp rate of 1/2BPM @ 1200psi, POOH w/ tbg, RU pump truck to csg PT to 1985psi, 442psi loss, 24.55ppm in 18min, Repressured to 2100psi, 585psi loss, 39ppm in 15min, Repressured to 2043psi, 438psi loss, 29.2ppm in 15min, Repressured to 2060psi,

361psi loss, 24.06ppm in 15min, Repressured to 2001psi, SWIFN, 8:00pm to 8:30PM c/travl - 5:30 AM To 6:00AM, R/U BMW Hot Oiler To Tbg Pump D/Tbg W/ 40 Bbls Wtr With By Side To Kill H2s, Shut Well In For 15 Min Open Tbg, Check For H2s, No H2s, N/D W-HD, N/U Bop, R/U Flr, Released Pkr, POOH W/151 Jts, SN, L/D On/Off, Tool Pkr, OX 2 7/8 To 2 3/8 Sub, XN Nipple, P/U HD Pkr & Plug, RIH W/ 151 Jts, Set Plug @4593 Pulied 1 Jts, Set Pkr, Test Pkr & Plug 2000 Psi, Good Test Release Pkr Pull Up To 3530 Ft. Set Pkr R/U & Test, Good Test, Release Pkr, Pulled Up To 3533 Set Pkr & Test, Good Test Pulled Up To 3353 Set Pkr & Test Good Test, Hook Up To Csg Fill W/ 3 Bbls Tried To Inject In To Csg 1300 Psi at 1/2 bpm. Pulled Up To 1960 Test Pkr, Good Test, RIH To Plug Release Pulled UP To 1960 & Set Plug, Test Plug Good Test, POOH W/ 65 Jts, L/D HD Pkr, P/U Tension Set Pkr, RIH To 1930 Set & Test To 1500 Psi, Good Test, Pulled Up To 865 Ft Set Pkr, Test Csg To 1500 Psi, Good Test, 1500Psi, Release Pkr Went To 905 Psi Up To 1500, D/Tbg Good Test, Pump D/Csg 3/4 Bpm 1300 Psi, Pump 5 Bbls In To Hole, Release Pkr, SWIFN . 6:30 PM To 7:00PM C/Trvl. - 5:30 AM To 6:00AM, R/U BMW Hot Oiler To Tbg Pump D/Tbg W/ 40 Bbls Wtr With By Side To Kill H2s, Shut Well In For 15 Min Open Tbg, Check For H2s, No H2s, N/D W-HD, N/U Bop, R/U Flr, Released Pkr, POOH W/151 Jts, SN, L/D On/Off, Tool Pkr, OX 2 7/8 To 2 3/8 Sub, XN Nipple, P/U HD Pkr & Plug, RIH W/ 151 Jts, Set Plug @4593 Pulied 1 Jts, Set Pkr, Test Pkr & Plug 2000 Psi, Good Test Release Pkr Pull Up To 3530 Ft. Set Pkr R/U & Test, Good Test, Release Pkr, Pulled Up To 3533 Set Pkr & Test, Good Test Pulled Up To 3353 Set Pkr & Test Good Test, Hook Up To Csg Fill W/ 3 Bbls Tried To Inject In To Csg 1300 Psi at 1/2 bpm. Pulled Up To 1960 Test Pkr, Good Test, RIH To Plug Release Pulled UP To 1960 & Set Plug, Test Plug Good Test, POOH W/ 65 Jts, L/D HD Pkr, P/U Tension Set Pkr, RIH To 1930 Set & Test To 1500 Psi, Good Test, Pulled Up To 865 Ft Set Pkr, Test Csg To 1500 Psi, Good Test, 1500Psi, Release Pkr Went To 905 Psi Up To 1500, D/Tbg Good Test, Pump D/Csg 3/4 Bpm 1300 Psi, Pump 5 Bbls In To Hole, Release Pkr, SWIFN . 6:30 PM To 7:00PM C/Trvl. - 5:30 AM To 6:00AM, R/U BMW Hot Oiler To Tbg Pump D/Tbg W/ 40 Bbls Wtr With By Side To Kill H2s, Shut Well In For 15 Min Open Tbg, Check For H2s, No H2s, N/D W-HD, N/U Bop, R/U Flr, Released Pkr, POOH W/151 Jts, SN, L/D On/Off, Tool Pkr, OX 2 7/8 To 2 3/8 Sub, XN Nipple, P/U HD Pkr & Plug, RIH W/ 151 Jts, Set Plug @4593 Pulied 1 Jts, Set Pkr, Test Pkr & Plug 2000 Psi, Good Test Release Pkr Pull Up To 3530 Ft. Set Pkr R/U & Test, Good Test, Release Pkr, Pulled Up To 3533 Set Pkr & Test, Good Test Pulled Up To 3353 Set Pkr & Test Good Test, Hook Up To Csg Fill W/ 3 Bbls Tried To Inject In To Csg 1300 Psi at 1/2 bpm. Pulled Up To 1960 Test Pkr, Good Test, RIH To Plug Release Pulled UP To 1960 & Set Plug, Test Plug Good Test, POOH W/ 65 Jts, L/D HD Pkr, P/U Tension Set Pkr, RIH To 1930 Set & Test To 1500 Psi, Good Test, Pulled Up To 865 Ft Set Pkr, Test Csg To 1500 Psi, Good Test, 1500Psi, Release Pkr Went To 905 Psi Up To 1500, D/Tbg Good Test, Pump D/Csg 3/4 Bpm 1300 Psi, Pump 5 Bbls In To Hole, Release Pkr, SWIFN . 6:30 PM To 7:00PM C/Trvl. - 11:00AM MIRUSU NC#1, Waiting On Tank For 3 1/2 Hrs, Waiting On Gs Electric To Grounding Tank, To Bleed Down Tbg, Tbg Psi Is 450Psi, And Waiting On Water For 2 1/2 Hrs, R/U To Flow Back Tank To Bleed Off Psi On & H2s @ 40 PPM As Flow Back. SWIFN 6:00PM C/Trvl 6:00 PM To 6:30PM - 11:00AM MIRUSU NC#1, Waiting On Tank For 3 1/2 Hrs, Waiting On Gs Electric To Grounding Tank, To Bleed Down Tbg, Tbg Psi Is 450Psi, And Waiting On Water For 2 1/2 Hrs, R/U To Flow Back Tank To Bleed Off Psi On & H2s @ 40 PPM As Flow Back. SWIFN 6:00PM C/Trvl 6:00 PM To 6:30PM - 11:00AM MIRUSU NC#1, Waiting On Tank For 3 1/2 Hrs, Waiting On Gs Electric To Grounding Tank, To Bleed Down Tbg, Tbg Psi Is 450Psi, And Waiting On Water For 2 1/2 Hrs, R/U To Flow Back Tank To Bleed Off Psi On & H2s @ 40 PPM As Flow Back. SWIFN 6:00PM C/Trvl 6:00 PM To 6:30PM

Daily Cost: \$0

Cumulative Cost: \$45,103

10/3/2013 Day: 8

Major Workover

NC #1 on 10/3/2013 - Put pressure on csg, Waited on drill collars, PU Collars, Started Drilling On Cement Made 151', 262' To Go To RBP - 5:30 AM To 6:00AM c/ travl: Checked Csg pressure, 1656psi loss, 2.3ppm loss in 720min (12hrs), RU H/Oiler to Csg, Hole remaining full,

Put 1500psi on csg @ 7:30AM, 105psi loss, 1.05ppm in 100min, Bleed off pressure, MU & RIH w/ 4 3/4" OFM rock bit, BS, 6- 3 1/2" drill collars (186.40'), 3 1/2"X 2 7/8" XO, TIH w/ 10-tbg jts tagged @ 491', RU RBS Power Swivel, RU rig pmp, PU- 5 jts , Drilled up 151' of cement, Pmped bottoms up, HB Power Swivel, RD & drained rig pmp, SWIFN.. 4:30PM to 5:00PM c/travl

Daily Cost: \$0

Cumulative Cost: \$69,594

10/7/2013 Day: 9

Major Workover

NC #1 on 10/7/2013 - Drill Out Cement, Tag RBP, PT Squeeze, GOOD TEST!, - 5:30 AM To 6:00AM c/ travl: OWU, Tag sand on RBP @ 1038', RU rig pmp, Cleaned off PLG, Released PLG, POOH, LD 6- Drill Collars, MU & RIH w/ AS injection PKR applying liquid O-ring to pins, RU & RIH w/ sandline to seat Stnd Vavl, 5BW to fill tbg, PT tbg to 3000psi, Observed pressure for 60min, NO PRESSURE LOSS, Retrieved Stnd Valv, RD workfloor, ND BOP, MU 3K injection tree, H/ Oiler circulated well w/ 60BW w/ PKR Fluids, NU injection tree, PT Csg to 1500psi, Observed pressure for 30min, 50psi loss, Repressured to 1525psi, SWIFN...7:00PM to 7:30PM c/travl - 5:30 AM To 6:00AM c/ travl: OWU, Tag sand on RBP @ 1038', RU rig pmp, Cleaned off PLG, Released PLG, POOH, LD 6- Drill Collars, MU & RIH w/ AS injection PKR applying liquid O-ring to pins, RU & RIH w/ sandline to seat Stnd Vavl, 5BW to fill tbg, PT tbg to 3000psi, Observed pressure for 60min, NO PRESSURE LOSS, Retrieved Stnd Valv, RD workfloor, ND BOP, MU 3K injection tree, H/ Oiler circulated well w/ 60BW w/ PKR Fluids, NU injection tree, PT Csg to 1500psi, Observed pressure for 30min, 50psi loss, Repressured to 1525psi, SWIFN...7:00PM to 7:30PM c/travl - 5:30 AM To 6:00AM c/ travl: OWU, RU rig pmp, RU RBS Power Swivel, Hole remaining full, Conti drilling on cement, Drill out 262', Hit 150' void, Tagged RBP @ 1050' RBP moved down hole 5 1/2 jts, POOH w/ drill collars & BS, PT Csg w/ H/Oiler to 1550psi for 30min, NO Pressure Loss, MU Plg retriever TIH w/ 26- jts, SWIFWE...5:30PM to 6:00PM - 5:30 AM To 6:00AM c/ travl: OWU, RU rig pmp, RU RBS Power Swivel, Hole remaining full, Conti drilling on cement, Drill out 262', Hit 150' void, Tagged RBP @ 1050' RBP moved down hole 5 1/2 jts, POOH w/ drill collars & BS, PT Csg w/ H/Oiler to 1550psi for 30min, NO Pressure Loss, MU Plg retriever TIH w/ 26- jts, SWIFWE...5:30PM to 6:00PM

Daily Cost: \$0

Cumulative Cost: \$77,761

10/8/2013 Day: 11

Major Workover

NC #1 on 10/8/2013 - PT Csg, GOOD TEST, RDMOSU - 5:30 AM To 6:00AM c/ travl: Check csg pressure, 250psi loss in 12hrs, H/Oiler repressured to 1500psi, NO PRESSURE LOSS IN 60min, GOOD TEST!!, RDMOSU....FINAL RIG REPORT!!!.....READY FOR MIT!!

Daily Cost: \$0

Cumulative Cost: \$110,989

10/9/2013 Day: 12

Major Workover

Rigless on 10/9/2013 - Conduct MIT - Workover MIT performed on the above listed well. On 07/17/2013 the csg was pressured up to 1150 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 700 psig during the test. There was not an EPA representative available to witness the test. EPA #UT22197-03768 **Finalized**

Daily Cost: \$0

Cumulative Cost: \$111,889

Pertinent Files: Go to File List

Spud Date: 6/30/82
 Put on Production: 7/26/82
 Convert to Water supply well: 6/21/96
 Put on Injection: 4/11/98
 GL: 5258' KB: 5270'

Boundary Federal 13-21-8-17

Injection Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 DEPTH LANDED: 6 jts to 238' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 220 sxs Class "G" cmt.

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 15.5#
 LENGTH: 147 jts (6365 86')
 DEPTH LANDED: 147 jts to 5750' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 180 sxs Dowell Lite & 285 sxs Dowell Thixotropic.
 CEMENT TOP AT: Approx. 1650' from daily completion report.

TUBING

SIZE/GRADE/WT: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 151 jts (4627.5')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 4639.5' KB
 ON/OFF TOOL AT: 4640.6'
 ARROW #1 PACKER CE AT: 4645.3'
 XO 2-3/8 x 2-7/8 J-55 AT: 4649.2'
 TBG PUP 2-3/8 J-55 AT: 4649.7'
 X/N NIPPLE AT: 4653.8'
 TOTAL STRING LENGTH: EOT @ 4654.92'

FRAC JOB

7/18/82 5232'-5274' **Frac D1 & D2 sands as follows:**
 80,000# 20/40 sand in 878 bbls Versagel 1400 fluid. Treated @ avg press of 1850 psi w/avg rate of 30 BPM. ISIP 1650 psi. Calc flush: 5232 gal. Actual flush: 5130 gal.

2/15/96 3438'-3448' **Frac water sand as follows:**
 29,400# 16/30 sand in 189 bbls frac fluid Treated @ avg press of 2960 psi w/avg rate of 15.5 BPM. ISIP 1395 psi.

6/21/96 **Convert to water supply well.**
 3/06/98 **Squeeze water supply zones**
 3/12/98 **Convert to injector well.**
 08/15/03 4664-4686' **Pressure test squeezed perfs and Re-complete perforate new 4664-4686'**
 7/28/08 **5 Year MIT completed and submitted.**
 10/08/13 **Workover MIT Finalized — update tbg detail**

870'-896'
 (Squeezed 3/6/96)

3438'-3448'
 (Squeezed 3/6/98)

SN @ 4639'
 On Off Tool @ 4641'

Packer @ 4645'

X/N Nipple @ 4654'
 EOT @ 4655'
 4664'-4686'

5232'-5240'

5257'-5260'

5264'-5274'

PBTD @ 6322'

TD @ 6397'

Note: 3/9/98: Drill out CIBP at 4990' and push it down hole to 5357'

PERFORATION RECORD

7/17/82	5264'-5274'	1 JSPF	08 holes
7/17/82	5257'-5260'	1 JSPF	02 holes
7/17/82	5232'-5240'	1 JSPF	05 holes
1/28/88	5264'-5270'	4 JSPF	24 holes
1/28/88	5257'-5259'	4 JSPF	08 holes
1/28/88	5232'-5234'	4 JSPF	08 holes
2/10/96	870'-896'	4 JSPF	100 holes
2/16/96	3438'-3448'	4 JSPF	40 holes
08/13/03	4664-4686'	4 JSPF	88 holes

NEWFIELD

Boundary Federal 13-21-8-17
 515' FSL & 517' FWL
 SWSW Section 21-T8S-R17E
 Duchesne Co, Utah
 API #43-013-30665; Lease #U-50376

LCN 10/10/13



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
<http://www.epa.gov/region08>

OCT 22 2013

RECEIVED

OCT 25 2013

DIV. OF OIL, GAS & MINING

Ref: 8ENF-UFO

CERTIFIED MAIL 7009-3230-0003-0724-6799
RETURN RECEIPT REQUESTED

Mr. J D Horrocks
Newfield Exploration Company
Route 3, Box 3630
Myton, UT 84052

8S 17E 21

Re: Underground Injection Control (UIC)
Permission to Resume Injection
Boundary Federal 13-21-8-17 Well
EPA Well ID # UT22197-03768
API # 43-013-30665
Boundary Oil Field
Duchesne County, UT

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

Dear Mr. Horrocks:

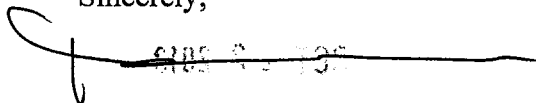
On October 17, 2013, the Environmental Protection Agency (EPA) received information from Newfield Exploration Company on the above referenced well concerning the workover to address a tubing leak and the followup mechanical integrity test (MIT) conducted on October 8, 2013. The data submitted shows that the well passed the required MIT. Therefore, pursuant to Title 40 of the Code of Federal Regulations Section 144.51(q)(2) (40 C.F.R. §144.51(q)(2)), permission to resume injection is granted. Under continuous service, the next MIT will be due on or before October 8, 2018.

Pursuant to 40 C.F.R. §144.52(a)(6), if the well is not used for a period of at least two (2) years ("temporary abandonment"), it shall be plugged and abandoned unless the EPA is notified and procedures are described to the EPA ensuring the well will not endanger underground sources of drinking water ("non-endangerment demonstration") during its continued temporary abandonment. A successful MIT is an acceptable non-endangerment demonstration and would be necessary every two (2) years the well continues in temporary abandonment.

Failure to comply with a UIC Permit, or the UIC regulations found at 40 C.F.R. Parts 144 through 148 constitute one or more violations of the Safe Drinking Water Act, 42 U.S.C. §300h. Such non-compliance may subject you to formal enforcement by the EPA, as codified at 40 C.F.R. Part 22.

If you have any questions concerning this letter, you may contact Sarah Roberts at (303) 312-7056. Please direct all correspondence to the attention of Sarah Roberts at Mail Code 8ENF-UFO.

Sincerely,



Darcy O'Connor, Director
UIC/FIFRA/OPA Technical Enforcement Programs

cc: Gordon Howell, Chairman Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026	Ronald Wopsock, Vice-Chairman Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026
Reannin Tapoof, Executive Assistant Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026	Stewart Pike, Councilman Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026
Tony Small, Councilman Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026	Bruce Ignacio, Councilman Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026
Phillip Chimburas, Councilman Uintah & Ouray Business Committee P.O. Box 190 Fort Duchesne, Utah 84026	Manuel Myore, Director of Energy, Minerals and Air Programs Ute Indian Tribe P.O. Box 190 Fort Duchesne, Utah 84026
Mike Natchees, Environmental Coordinator Ute Indian Tribe P.O. Box 190 Fort Duchesne, Utah 84026	✓ John Rogers Utah Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, Utah 84114

